BID DOCUMENTS

PROJECT: Roof Coating Installation for the Thomas F. Donelon Building for Jefferson Parish General Services.

PROJECT NO: 50-00138837

TO: Jefferson Parish, Purchasing Dept.,
P.O. Box 9
Gretna, Louisiana 70054-0009

BIDDER: Roofing Solutions, L.L.C
37302 Commerce Lane,
Prairieville, LA 70769

LICENSE #: 44196

BID TIME AND DATE: August 11th, 2022 @ 02:00 PM

BID FORM

Non Public Works

All Public Work Projects are required to use the Louisiana Uniform Public Work Bid Form

All prices must be held firm unless an escalation provision is requested in this bid. Jefferson Parish will allow one escalation during the term of the contract, which may not exceed the U.S. Bureau of Labor Statistics National Index for all Urban Consumers, unadjusted 12 month figure. The most recently published figure issued at the time an adjustment is requested will be used. A request must be made in writing by the vendor, and the escalation will only be applied to purchases made after the request is made.

Are you requesting an escalation provision?

YES _____ NO X

MAXIMUM ESCALATION PERCENTAGE REQUESTED N/A %

INITIAL BID PRICES WILL REMAIN FIRM THROUGH THE DATE OF 30 days.

For the purposes of comparison of bids when an escalation provision is requested, Jefferson Parish will apply the maximum escalation percentage quoted by the bidder to the period to which it is applied in the bid. The initial price and the escalation will be used to calculate the total bid price. It will be assumed,for comparison of prices only, that an equal amount of material or labor is purchased each month throughout the entire contract.

DELIVERY: FOB JEFFERSON PARISH

INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES 30 days after NTP

LOUISIANA CONTRACTOR'S LICENSE NO.: (if applicable) 44196

THIS SECTION MUST BE COMPLETED BY BIDDER:

FIRM NAME: Roofing Solutions, L.L.C.

ADDRESS: 37302 Commerce Lane,

CITY, STATE: Prairieville, Louisiana ZIP: 70769

TELEPHONE: (225) 744-3912 FAX: (225) 744-0037

EMAIL ADDRESS: estimating@roofingsolutionsla.com

In the event that addenda are issued with this bid, bidders MUST acknowledge all addenda on the bid form.Bidder must acknowledge receipt of an addendum on the bid form by placing the addendum number as indicated. Failure to acknowledge any addendum on the bid form will result in bid rejection.

Acknowledge Receipt of Addenda: NUMBER: 01

NUMBER: _____

NUMBER: _____

NUMBER: _____

TOTAL PRICE OF ALL BID ITEMS: $ 127,450.00

AUTHORIZED SIGNATURE: _____ Lauren M. Reynolds

Printed Name

TITLE: Authorized Representative

SIGNING INDICATES YOU HAVE READ AND COMPLY WITH THE INSTRUCTIONS AND CONDITIONS.

NOTE: All bids should be returned with the BID NUMBER and BID OPENING DATE indicated on the outside of the envelope submitted to the Purchasing Department.

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00138837

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
			ROOF COATING INSTALLATION FOR THE THOMAS F. DONELON BUILDING FOR JEFFERSON PARISH GENERAL SERVICES.		
1	1.00	JOB	0010 - ROOF COATING INSTALLATION THOMAS F. DONELON BUILDING DEPARTMENT OF GENERAL SERVICES WE EXTEND THIS PROPOSAL TO COVER THE INSTALLATION OF A PURE ELASTOMERIC SILICONE COATING OVER THE EXISTING ROOFS OF THE THOMAS DONELON BUILDING LOCATED AT 200 DERBIGNY STREET, GRETNA, LA 70053. ALL PREPARATION AND INSTALLATION SHALL FOLLOW MANUFACTURER GUIDELINES AND INSTRUCTIONS. SEE ATTACHMENT "A" FOR BUILDING LOCATION AND AREAS OF THE TOP TO BE COATED. SPECIFICATIONS ALSO ATTACHED.	$ 127,450.00	$ 127,450.00
2	1.00	SQFT	0020 - ANCILLARY WORK PROVIDE A COST PER SQUARE FOOT TO REMOVE, REPAIR AND REPLACE WATER-DAMAGED ROOFING MATERIALS DESCRIBED IN SECTION 10 OF THE SPECIFICATIONS. THIS IDENTIFIED COST WILL NOT BE PART OF THE BASE BID AND WILL NOT BE USED TO DETERMINE THE LOW BIDDER. THIS LINE ITEM WILL ONLY BE USED IF NEEDED.	$ 16.00	$ 16.00

Non-Public Works Bid

AFFIDAVIT

STATE OF Louisiana

PARISH/COUNTY OF Asencion

BEFORE ME, the undersigned authority, personally came and appeared: _____ Lauren Reynolds, (Affiant) who after being by me duly sworn, deposed and said that he/she is the fully authorized Representative of Roofing Solutions, LLC(Entity), the party who submitted a bid in response to Bid Number 50-00138837, to the Parish of Jefferson.

Affiant further said:

Campaign Contribution Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all campaign contributions, including the date and amount of each contribution, made to current or former elected officials of the Parish of Jefferson by Entity, Affiant, and/or officers, directors and owners, including employees, owning 25% or more of the Entity during the two-year period immediately preceding the date of this affidavit or the current term of the elected official, whichever is greater. Further, Entity, Affiant, and/or Entity Owners have not made any contributions to or in support of current or former members of the Jefferson Parish Council or the Jefferson Parish President through or in the name of another person or legal entity, either directly or indirectly.

Choice B x there are **NO** campaign contributions made which would require disclosure under Choice A of this section.

Debt Disclosures

(Choose A <u>or</u> B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all debts owed by the affiant to any elected or appointed official of the Parish of Jefferson, and any and all debts owed by any elected or appointed official of the Parish to the Affiant.

Choice B _x_ There are **<u>NO</u>** debts which would require disclosure under Choice A of this section.

Affiant further said:

That Affiant has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for Affiant; and

[*The remainder of this page is intentionally left blank.*]

That no part of the contract price received by Affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for Affiant.

Signature of Affiant

Lauren M. Reynolds
Printed Name of Affiant

SWORN AND SUBSCRIBED TO BEFORE ME
ON THE 11th DAY OF Aug., 2023.

Beverly S. Summers
Notary Public

BEVERLY S. SUMMERS
Printed Name of Notary

128290
Notary/Bar Roll Number

My commission expires life.

Beverly S Summers
LA Notary ID #128290
My Commission is for Life

APPENDIX A: The ensuing contract for this bid solicitation may be eligible for FEMA reimbursement. As such Appendix A will be applicable accordingly and shall be considered a part of the bid documents. All applicable certifications must be duly completed, signed and included in the submission. Failure to do so will result in rejection. (Bid # 50-00138837 Roof coating installation for the Thomas F. Donelon Building for Jefferson Parish General Services.)

Anti-Lobbying Form

CERTIFICATION OF RESTRICTIONS ON LOBBYING

I, Lauren M. Reynolds, hereby certify on
(name and title of bidder's official)

behalf of Roofing Solutions, LLC that:
(name of bidder)

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit standard Form-LLL, "Disclosure Form to Report Lobbying, " in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all sub awards at all tiers (including subcontracts, sub grants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance is placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

Executed this 8th day of August, 2023.

By Lauren M Rey
(signature of authorized official)

Authorized Representative
(title of authorized official)

Lauren M. Reynolds

APPENDIX A: The ensuing contract for this bid solicitation may be eligible for FEMA reimbursement. As such Appendix A will be applicable accordingly and shall be considered a part of the bid documents. All applicable certifications must be duly completed, signed and included in the submission. Failure to do so will result in rejection. (Bid # 50-00138837 Roof coating installation for the Thomas F. Donelon Building for Jefferson Parish General Services.)

Debarment/Suspension Form

DEBARMENT/SUSPENSION CERTIFICATION

Debarment:

Federal Executive Order (E.O.) 12549 "Debarment" requires that all contractors receiving individual awards, using federal funds, and all subrecipients certify that the organization and its principals are not debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded by any Federal department or agency from doing business with the Federal Government. By signing this document you certify that your organization and its principals are not debarred. Failure to comply or attempts to edit this language may disqualify your bid. Information on debarment is available at the following websites: www.sam.gov and https://acquisition.gov/far/index.html see section 52.209-6.

Your signature certifies that neither you nor your principal is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any federal department or agency.

Lauren M. Reynolds, Authorized Representative
(Name and Title of bidder's official)

Roofing Solutions, LLC
(Name of bidder/company)

37302 Commerce Lane,
(Address)
Prairieville, Louisiana 70769
(Address)

PHONE 225-744-3912 FAX 225-744-0037

EMAIL estimating@roofingsolutionsla.com

Signature 08/11/22 Date

08-05-2022

Bid Bond in Accordance with Contract Specifications

SLA08054760
Bond Number

Roofing Solutions, LLC
Principal Name

37302 Commerce Lane, Prairieville, LA, 70769, US
Principal Address

Principal Signature

Jefferson Parish
Owner/Obligee Name

200 Derbigny Street, Gretna, LA, 70053, US
Owner/Obligee Address

Bond Information

08-11-2022
Bid Date

Philadelphia Indemnity Insurance Company
Surety

209554
Contractor Vendor ID Number

50-00138837
Contract ID Number

Roof Coating Installation for the Thomas F. Donelon Building for Jefferson Parish General Services
Description of Job

Five Percent of Amount Bid
Amount of Bid Security

Bid Security Maximum

5%
Bid Security Percentage

Mary C Turner
Attorney-in-Fact
Bond Entered and Executed By

Surety Bond Brokers of LA Inc.
Primary Agency

Mary Catherine Turner
Attorney-In-Fact Signature

Know all men by these presents that Philadelphia Indemnity Insurance Company, *a Corporation duly organized under the laws of the State of* PA, *are held and firmly bound unto the above owner/obligee by the transmission. The surety agrees to waive the statute of Fraud defense and further agrees that the owner/obligee is a third party beneficiary of the waiver for the purposes of enforcing this bid bond.*

S2K:N17xYdYlp:641203

CORPORATE RESOLUTION

BE IT RESOLVED by the Board of Directors of *Roofing Solutions, L.L.C.* in a meeting duly assembled, that Lauren Reynolds (Name), Authorized Representative(Title), of the Corporation, be, and she is hereby authorized, empowered and directed for and on behalf of the Corporation to negotiate for and sign any and all bid proposals and/or contracts which this Corporation might enter into for the furnishing of services for the Corporation under such terms, conditions and stipulates, and for such consideration as he might deem to be in the best interest of the Corporation.

****

I, Tupac de La Cruz (Name), Secretary of *Roofing Solutions, L.L.C.* do hereby certify that the above and foregoing is a true and correct copy of a Resolution unanimously adopted at a meeting of the Board of Directors of said Corporation held on the day 10 of January, 2022, at which meeting all members of the Board of Directors were present and voted thereon and that said Resolution has been spread upon the minute books of the Corporation, and same is now in full force and effect.

WITNESS MY SIGNATURE this 11th day of August 2022, at Roofing Solutions, L.L.C.

Managing Member

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 12/29/2021

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
BXS Insurance
4041 Essen Lane, Suite 400
Baton Rouge LA 70809

CONTACT NAME: Cheryl Boudreaux
PHONE (A/C, No, Ext): 225-336-3200 **FAX (A/C, No):** 225-336-4536
E-MAIL ADDRESS: cheryl.boudreaux@bxsi.com

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Gray Insurance Company	36307
INSURER B : XL Specialty Insurance Company	37885
INSURER C :	
INSURER D :	
INSURER E :	
INSURER F :	

INSURED ROOFING SO
Roofing Solutions, LLC
Roofing Solutions of Louisiana, LLC
37302 Commerce Lane
Prairieville LA 70769

COVERAGES **CERTIFICATE NUMBER:** 1274983838 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X **COMMERCIAL GENERAL LIABILITY** CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY X PRO-JECT X LOC OTHER:			XSGL100005	1/1/2021	1/1/2024	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 1,000,000 $ 100,000 $ 5,000 $ 1,000,000 $ 3,000,000 $ 3,000,000
A	**AUTOMOBILE LIABILITY** X ANY AUTO OWNED AUTOS ONLY HIRED AUTOS ONLY SCHEDULED AUTOS NON-OWNED AUTOS ONLY			XSAL100005	1/1/2021	1/1/2024	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ $ $
A	UMBRELLA LIAB X OCCUR X **EXCESS LIAB** CLAIMS-MADE DED RETENTION $			GXS100117	1/1/2022	1/1/2023	EACH OCCURRENCE AGGREGATE	$ 4,000,000 $ 4,000,000
A	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y / N: N **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		XSWC100004	1/1/2021	1/1/2024	X PER STATUTE OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ 1,000,000 $ 1,000,000 $ 1,000,000
B	Rented Leased Equipment Scheduled Equipment			UM00062215MA22A	1/1/2022	1/1/2023	$100,000 per item $195,244	$100,000 per occ Deductible $1,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Subject to policy terms, conditions and exclusions; the certificate holder shall be considered an Additional Insured on a Primary and Non-Contributory basis on General Liability (additional insured form includes Ongoing and Completed Operations), Automobile Liability and Excess policies with a Waiver of Subrogation granted in their favor on General Liability, Automobile Liability, Workers' Compensation and Excess policies when required by written contract, but only to the extent of the Named Insured's obligation to indemnify, defend and/or hold harmless the certificate holder as required by written contract.

Leased/Rented Equipment:
Certificate Holder shown is Additional Insured and Loss Payee with respect to leased/rented equipment when required by written contract.

See Attached...

CERTIFICATE HOLDER

SAMPLE

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

AGENCY CUSTOMER ID: ROOFING SO

LOC #: _____

ADDITIONAL REMARKS SCHEDULE

AGENCY BXS Insurance	**NAMED INSURED** Roofing Solutions, LLC Roofing Solutions of Louisiana, LLC 37302 Commerce Lane Prairieville LA 70769
POLICY NUMBER	
CARRIER / **NAIC CODE**	**EFFECTIVE DATE:**

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: 25 **FORM TITLE:** CERTIFICATE OF LIABILITY INSURANCE

Subject to policy terms and conditions, Loss Payee shall receive the amount the Insured is obligated to pay for direct physical loss or damage to Contractor's equipment by reason of their assumption of liability in a written contract or written agreement executed prior to the loss or damage for Contractor's equipment that you lease or rent, but no more than the replacement cost of the damaged item.

30 Day Notice of Cancellation is provided in respects to General Liability, Auto Liability, and Workers Compensation if required by written contract.

Excess policy is follow form in respects to General Liability, Auto Liability, and Workers Compensation; except exclusions for Sudden & Accidental Pollution, Punitive damages, Underground Resources and Equipment, and silica on the General Liability policy.

WORKERS COMPENSATION:
1/1/2022-23 NON-FL WORKERS COMPENSATION (INCLUDES AL, AZ, CO, MS, AND TX)
POLICY# GWC100006
LIMITS: $1ML/$1ML/$1ML
LOUISIANA POLICY IS REFERENCED ABOVE

REFER TO ATTACHED PDF PAGE 3 FOR ADDITIONAL COVERAGES THAT ARE INCLUDED ON THESE POLICIES.

THE GRAY INSURANCE COMPANY

The below coverages apply if the corresponding policy number is indicated on the previous page.

A. Commercial General Liability

General Liability Policy Includes:
Blanket Waiver of Subrogation when required by written contract.
Blanket Additional Insured when required by written contract.
Primary Insurance Wording Included when required by written contract.
Broad Form Property Damage Liability including Explosion, Collapse and Underground (XCU).
Premises/Operations
Products/Completed Operations
Contractual Liability
Sudden and Accidental Pollution Liability
Occurrence Form
Personal Injury
"In Rem" Endorsement
Cross Liability
Severability of Interests Provision
"Action Over" Claims
Independent Contractors coverage for work sublet
Vessel Liability - Watercraft exclusion has been modified by the vessels endorsement on scheduled equipment.
General Aggregate applies per project or equivalent.

B. Automobile Liability Policy Includes:

Blanket Waiver of Subrogation when required by written contract.
Blanket Additional Insured when required by written contract.

C. Workers Compensation Policy Includes:

Blanket Waiver of Subrogation when required by written contract.
U.S. Longshoremen's and Harbor Workers Compensation Act Coverage
Outer Continental Shelf Land Act
Jones Act (including Transportation, Wages, Maintenance, and Cure),
Death on the High Seas Act & General Maritime Law.
Maritime Employers Liability Limit: $1,000,000
Voluntary Compensation Endorsement
Other States Insurance
Alternate Employer/Borrowed Servant Endorsement
"In Rem" Endorsement
Gulf of Mexico Territorial Extension

D. Excess Liability Policy Includes:

Coverage is excess of the Auto Liability, General Liability, Employers Liability, & Maritime Employers Liability policies
Blanket Waiver of Subrogation when required by written contract.
Blanket Additional Insured when required by written contract.

State of Louisiana

State Licensing Board for Contractors

This is to Certify that:

ROOFING SOLUTIONS, L.L.C.
37302 Commerce Ln.
Prairieville, LA 70769

is duly licensed and entitled to practice the following classifications

BUILDING CONSTRUCTION; HEAVY CONSTRUCTION; MECHANICAL WORK (STATEWIDE); SPECIALTY: ROOFING AND SHEET METAL, SIDING; SPECIALTY: WATERPROOFING, COATING, SEALING, CONCRETE/MASONRY REPAIR

Witness our hand and seal of the Board dated,
Baton Rouge, LA 26th day of October 2021

Director

Chairman

Treasurer

Expiration Date: October 25, 2022

License No: 44196

This License Is Not Transferrable

Application Guideline

ENVIR-O-SIL ROOF RESTORATION SYSTEM OVER MODIFIED BITUMEN

To ensure warranty eligibility, each job must be approved by American WeatherStar before it begins.

PART 1 - GENERAL

1.01 DESCRIPTION

A. The intention of this guideline is to outline the procedures for the application of American WeatherStar reflective roof coatings for the purpose of coating **MODIFIED BITUMEN ROOF SURFACES.** These suggested guidelines describe materials, methods, and conditions necessary for the proper application of the American WeatherStar roof coating system. Actual application requirements may vary and are the responsibility of the contractor.

B. This guideline may not outline all procedures for preparation and finishing of penetrations, drains, flashings, etc. This work should be outlined separately by the contractor before the work commences and shall be performed observing good trade practices.

1.02 APPROVED APPLICATOR

All American WeatherStar products shall be applied by a single, experienced, and competent contractor approved by American WeatherStar.

PART 2 - PRODUCTS

2.01 COATINGS AND RELATED MATERIALS

All materials used shall be manufactured by and or approved by American WeatherStar and shall meet the following specifications:

2.02 ELASTOMERIC COATING SYSTEM

HIGH SOLIDS SILICONE 412
Type: UV resistant elastomeric
Elongation: 170% ± 25%
Tensile strength: 450 psi ± 50 psi
Volume solids: 92% ± 2%
Color: White, gray, and tan

TERMINATOR 622
Type: Siliconized urethane sealant
Volume solids: 100%
Color: White or gray

ACRYLIC BONDING PRIMER 905
Type: Primer/surface conditioner
Viscosity: 600-800 cps
Elongation: N/A
Tensile strength: N/A
Volume solids: 38% ± 2%
Color: Black

BRUSH GRADE SILICONE 422
Type: Silicone flashing material
Elongation: >275% at 73°F
Tensile strength: 130 psi at 73°F
Volume solids: 96% ± 2%
Color: White

POLYESTER FABRIC
Type: Spunbound polyester
Viscosity: N/A
Tensile strength: 35 psi

ECOCLEANER 925
Type: Surface Cleaner
VOC: 0 grams/liter
Color: Clear

2.03 DELIVERY AND STORAGE

A. Materials shall be delivered in their original tightly-sealed containers or unopened packages, all clearly labeled with the manufacturer's name, file number, and batch numbers.

B. Materials shall be stored out of the weather in their original tightly-sealed containers or unopened containers as recommended by the manufacturer.

2.04 WARRANTY

A. American WeatherStar warrants that the material supplied will meet or exceed physical properties as published. The contractor guarantees that workmanship will be free of defects in coating application. Since performance of existing roof substrate or previously applied coatings are beyond the control of American WeatherStar or the contractor, requests for additional warranty coverage shall be subject to prior approval by American WeatherStar.

B. Comply with manufacturer's warranty application procedures. A Pre-Project Inspection Report should be submitted and approved prior to job commencement.

PART 3 - INSTALLATION

3.01 SURFACE PREPARATION

A. Preparation shall include all requirements specified by American WeatherStar to ensure proper adhesion of the American WeatherStar products to the substrate. (An adhesion test may be necessary.)

B. Preparation shall include, but not be limited to, the following:

1. All unnecessary and non-functional equipment and debris shall be removed from the roof.
2. Substrate must be pressure-washed. A minimum working pressure of 3,000 psi shall be used to remove all dirt, dust, any previous paints or coatings that are delaminating, as well as waste products (oil, oil-based roof cements, solvents, grease, animal fats, etc.). Use **ECOCLEANER 925** if necessary to remove all contaminates. Contact American WeatherStar for additional information.
3. HVAC condensate drains shall be properly routed to roof drains or plumbed off the roof.
4. Wet roof insulation and damaged membranes are to be removed and replaced as necessary to match existing specified material.
5. All roof penetrations, curbs, vent stacks and related roof penetrations are to be flashed in accordance with roof manufacturer’s specifications.
6. All laps and wall flashings are to be repaired in accordance with roof manufacturer’s specifications.
7. Contractor shall make every effort to mechanically eliminate all ponding water areas on the roof surface prior to application of any roof-coating product.

3.02 PRIMER APPLICATION

Examine substrate to receive roof coating. Do not proceed with installation of the American WeatherStar roof coating until all problem areas have been corrected in a manner acceptable to the manufacturer.

A. **Treatment of Residual Asphalt:** Installer shall make every effort to remove all loosely adhered asphaltic roofing elements. Removal efforts must include the use of pressure-washers, scrapers, wire brushes, wire-wheels, or other similar tools.

B. **Asphalt Bleed-thru: ACRYLIC BONDING PRIMER 905** application directly to Modified Bitumen Substrate is to prevent asphalt bleed-through. If Asphalt Bleed-thru is not an issue, primer is not necessary over Modified Bitumen.

C. **Previously Coated:** All areas of the roof that have been previously coated must be primed with **ACRYLIC BONDING PRIMER 905** at a rate of 1 gallon per 100 square feet. An adhesion test should be conducted to ensure proper adhesion to the existing coating. Adhesion to the existing roof substrate depends on the condition of any existing coating.

3.03 PREPARATION FOR COATING

A. All seams, penetrations, curbs, and parapet wall details are to be flashed using **TERMINATOR 622**.

1. **Seams:** Apply a layer of **TERMINATOR 622** into each seam. (Min 30 mils DFT)
    a. Apply **TERMINATOR 622** at a rate of 30 wet mils.
    b. Application shall be a minimum of 3" wide over the seam and feathered on to the existing roof membrane.
2. **Penetrations:** Apply **TERMINATOR 622** at a rate of 60 wet mils. (Min 60 mils DFT)
    a. Application shall encapsulate the area around the penetration.
    b. Application shall extend a minimum of 3" on to the existing roof membrane.
    c. Feather the application so as to not cause water damming.
3. **Parapet Walls:** Apply **TERMINATOR 622** to all seams and flashings on parapet walls.
    a. **Seams:** Apply a layer of **TERMINATOR 622** into each seam. (Min 30 mils DFT)
        1. Apply **TERMINATOR 622** at a rate of 30 wet mils.
        2. Application shall be a minimum of 3" wide over the seam.
    b. **Flashings:** Apply a layer of **TERMINATOR 622** at flashing points. (Min 60 mils DFT)
        1. Apply **TERMINATOR 622** as required to any existing flashings at a rate of 60 wet mils.
        2. Application should be made to insure water tightness of the flashing detail.

B. Repair all cracks and splits in roof using **TERMINATOR 622** in the same manner as each seam is repaired.

1. Cracks or splits less than ¼"
    a. Apply a layer of **TERMINATOR 622** into each crack or split.
    b. Application shall extend a minimum of 3" wide over the crack and feathered on to the existing roof membrane.
2. Cracks or splits greater than ¼"
    a. Apply a layer of **TERMINATOR 622** into each crack or split.
    b. Application shall extend a minimum of 3" wide over the crack and feathered on to the existing roof membrane.
    c. Once crack is filled and leveled with existing roofing membrane, apply suitable width **POLYESTER FABRIC** as to extend 2" on either side of the crack.
    d. Once fabric is embedded, encapsulate with **TERMINATOR 622**.
3. If cracks predominate the existing roofing membrane, an AWS Full Fabric System may be required.

Note: TERMINATOR 622 can be substituted with **SILICONE BRUSH GRADE 422**

3.04 APPLICATION RATES

Note: If coating is being applied with spray equipment or Super Spreader, back-roll base coat material in order to penetrate existing system.

A. **<u>10 Year System Requirement (30 mil Envir-O-Sil System)</u>**

1. **BASE COAT:** Apply a base coat of the **HIGH SOLIDS SILICONE 412** at 1.1 gallon per 100 square feet.

2. **TOP COAT:** Apply a top coat of **HIGH SOLIDS SILICONE 412** at a rate of 1.1 gallon per 100 square feet.

B. **15 Year System Requirement (35 mil Envir-O-Sil System)**

1. **BASE COAT:** Apply a base coat of the **HIGH SOLIDS SILICONE 412** at 1.25 gallons per 100 square feet.
2. **TOP COAT:** Apply a top coat of **HIGH SOLIDS SILICONE 412** at a rate of 1.25 gallons per 100 square feet.

C. **20 Year System Requirement (40 mil Envir-O-Sil System)**

1. **BASE COAT:** Apply a base coat of the **HIGH SOLIDS SILICONE 412** at 1.5 gallons per 100 square feet.
2. **TOP COAT:** Apply a top coat of **HIGH SOLIDS SILICONE 412** at a rate of 1.5 gallons per 100 square feet.

Note: A single coat of **HIGH SOLIDS SILICONE 412** is permissible given the required dry film thickness is achieved for the respective term length.

D. Each coat must be allowed to dry for 24-48 hours depending on humidity and temperature. The roof is to be inspected for defects, flaws or holidays and repaired if necessary.

E. Each contractor should estimate coating requirements based on actual experience and needs to figure in losses due to applicator experience, surface texture, wind, waste, and other factors that can affect actual gallons required.

F. It is the applicator's responsibility to verify wet and dry mil thickness during the application process to ensure proper dry mil thickness of the total roofing system.

3.05 PONDING

A. Known ponding water areas are to be repaired using commonly acceptable roofing practices so as to allow proper drainage of roof area.

B. Ponding water areas are a sign of possible mechanical failure in the roof.

C. Ponding water is NOT excluded from the warranty of the **ENVIR-O-SIL** Roofing System when properly installed by an American WeatherStar Approved Contractor.

3.06 RESTRICTIONS/LIMITATIONS

This system is to be used only in conjunction with commonly accepted roofing standards but not limited to the following:

A. No application of materials shall commence during inclement weather or when precipitation is imminent.

B. No thinning of materials is permitted.

C. No materials are to be applied to wet, dirty, or frozen surfaces.

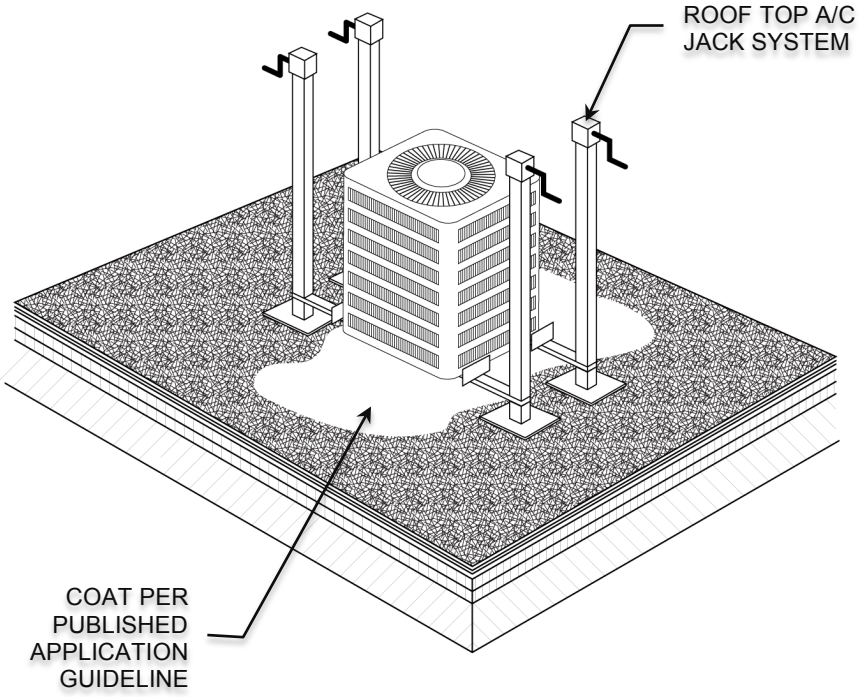
D. In conjunction with the final inspection, all debris, containers, materials and equipment are to be properly removed from the job site. Grounds are to be cleaned, undamaged, and acceptable to the owner.

E. Reflectivity of coatings may be reduced if roof surface is not cleaned on a regularly scheduled basis.

Caution: Do not apply within two hours of sunset, rain, fog or freezing temperatures. The American WeatherStar roof coating system must be completely dry before exposing to water or foot traffic. Keep American WeatherStar containers covered when not in use. Dispose of all containers in accordance with state and local environmental regulations. Keep away from children. If ingested, DO NOT induce vomiting. Call Physician immediately.

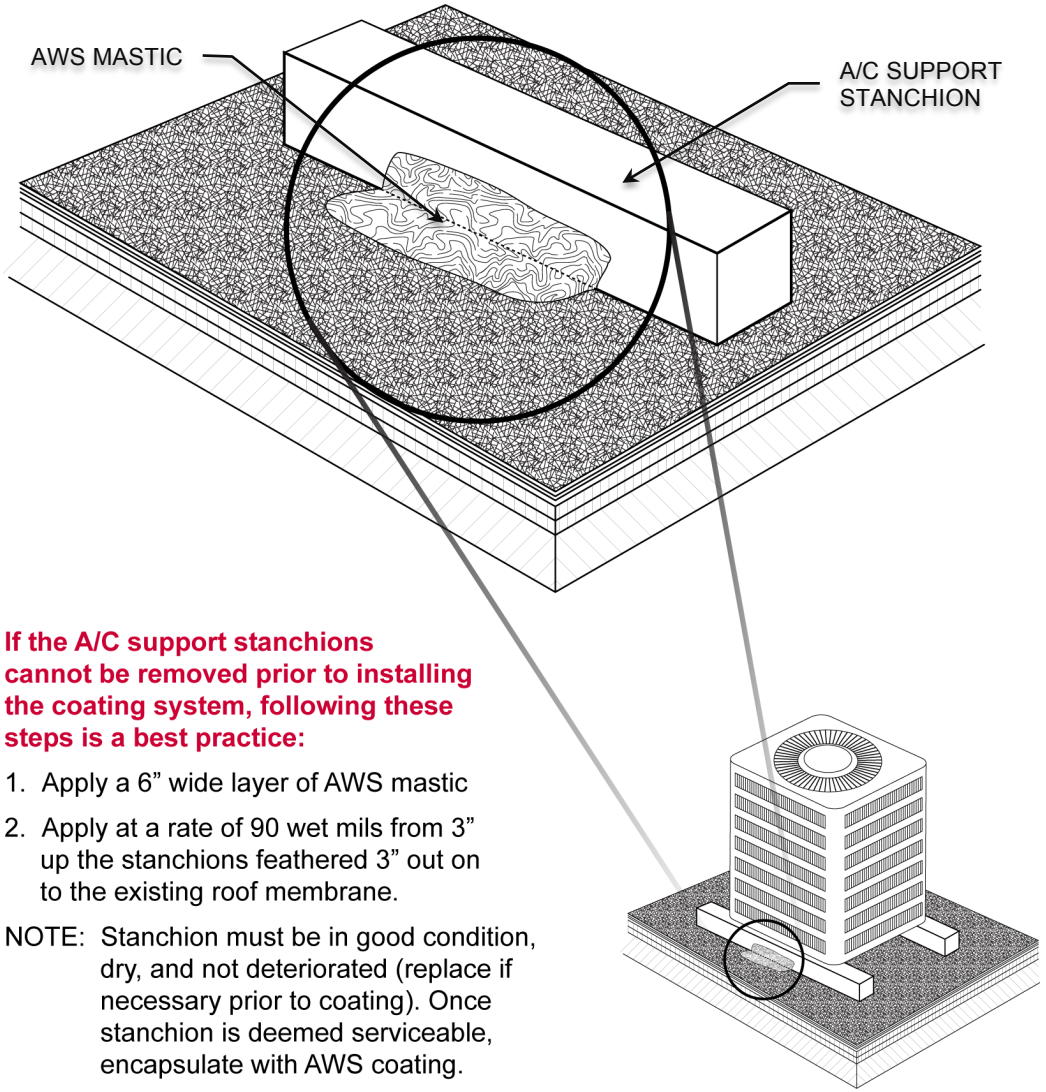
FLAT ROOF: MASTIC

If the A/C support stanchions can be removed prior to coating, using a roof top A/C jack system or similar process, follow the coating instructions per the published Application Guideline.



If the A/C support stanchions cannot be removed prior to coating, they will be considered an unwarrantable maintenance item.

Contact American WeatherStar with any questions.



If the A/C support stanchions cannot be removed prior to installing the coating system, following these steps is a best practice:

1. Apply a 6” wide layer of AWS mastic
2. Apply at a rate of 90 wet mils from 3” up the stanchions feathered 3” out on to the existing roof membrane.

NOTE: Stanchion must be in good condition, dry, and not deteriorated (replace if necessary prior to coating). Once stanchion is deemed serviceable, encapsulate with AWS coating.

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A/C SUPPORT STANCHION

See specific application guideline for suitable AWS mastic.

LEGEND

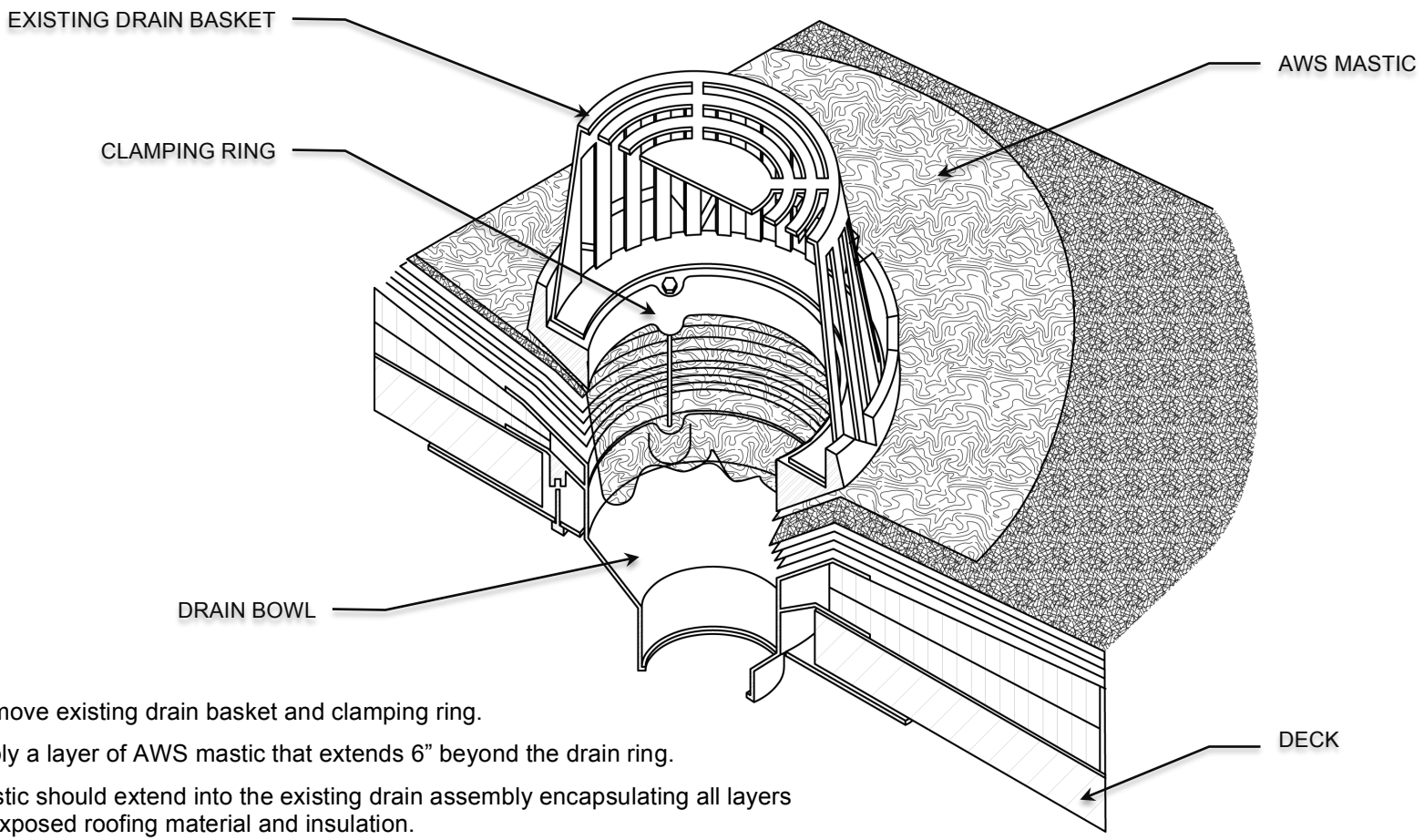
MASTIC

NOTE: This detail is provided to show a generally recommended procedure for dealing with the condition shown. It will not and cannot provide a specific solution for every condition likely to be encountered in field application. Where field conditions differ, the use of applicable portions of the detail shown or its adaptation by an experienced and conscientious applicator should result in a quality project.

REVISION DATE: 10/30/2015

SCALE: NTS

FLAT ROOF: MASTIC



1. Remove existing drain basket and clamping ring.
2. Apply a layer of AWS mastic that extends 6” beyond the drain ring.
3. Mastic should extend into the existing drain assembly encapsulating all layers of exposed roofing material and insulation.
4. Apply at 90 wet mils to achieve a minimum of 60 dry mils feathered to prevent water damming.
5. Re-install clamping ring and drain basket.

NOTE: Contact American WeatherStar with any questions.

800.771.6643
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DRAIN DETAIL

See specific application guideline for suitable AWS mastic.

LEGEND

MASTIC

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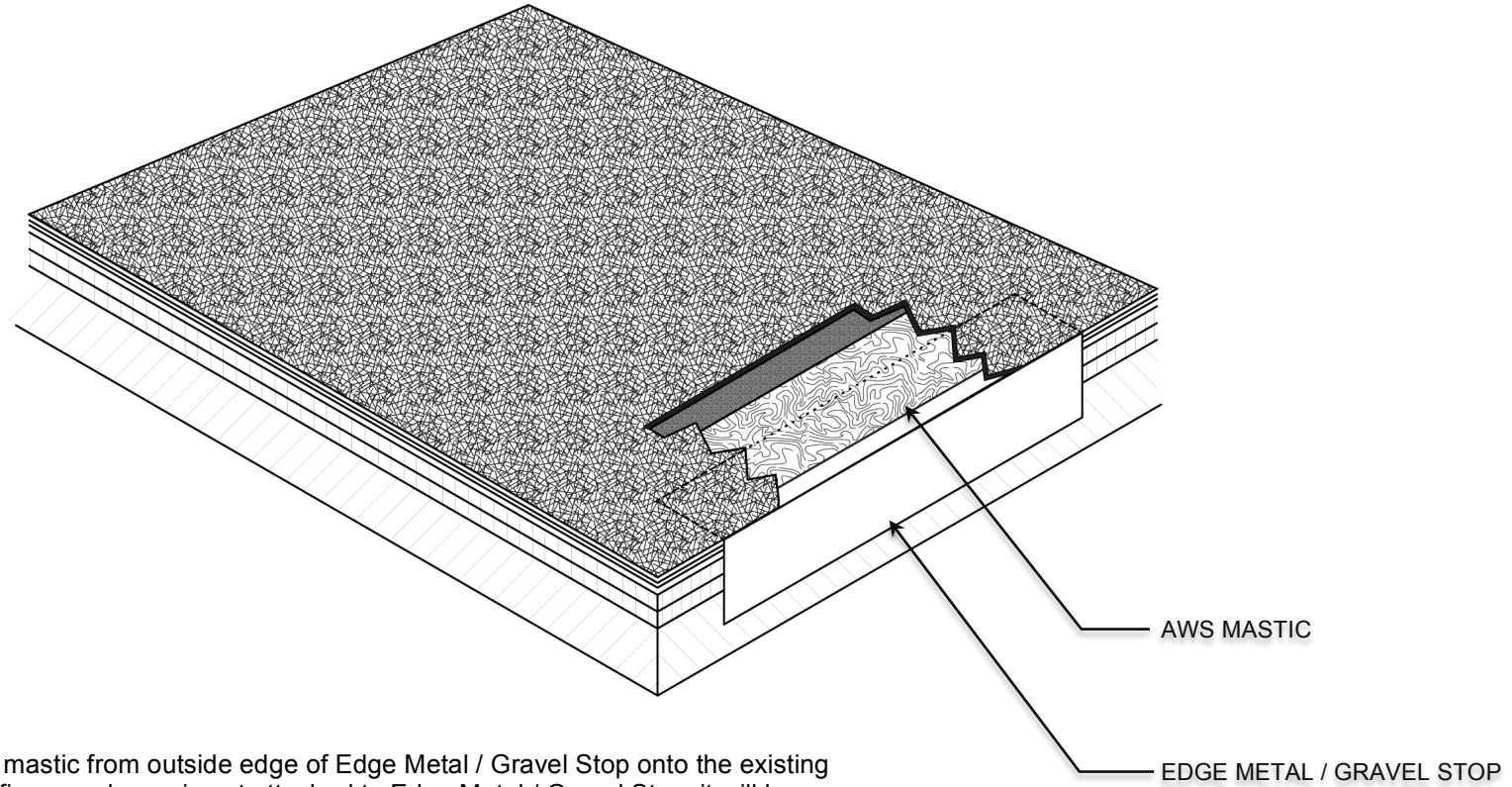
REVISION DATE: 10/30/2015

SCALE: NTS

FLAT ROOF: MASTIC



1. Apply a 4” wide layer of AWS mastic from outside edge of Edge Metal / Gravel Stop onto the existing roof membrane (If current roofing membrane is not attached to Edge Metal / Gravel Stop, it will be necessary to cut the membrane back to a point where it is attached to the Edge Metal / Gravel Stop).
2. Apply at a rate of 90 wet mils insuring a smooth transition from membrane to Gravel Stop/Edge Metal.
3. Feather the edges to prevent water damming.

NOTE: Contact American WeatherStar with any questions.

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EDGE METAL / GRAVEL STOP

See specific application guideline for suitable AWS mastic.

LEGEND

MASTIC

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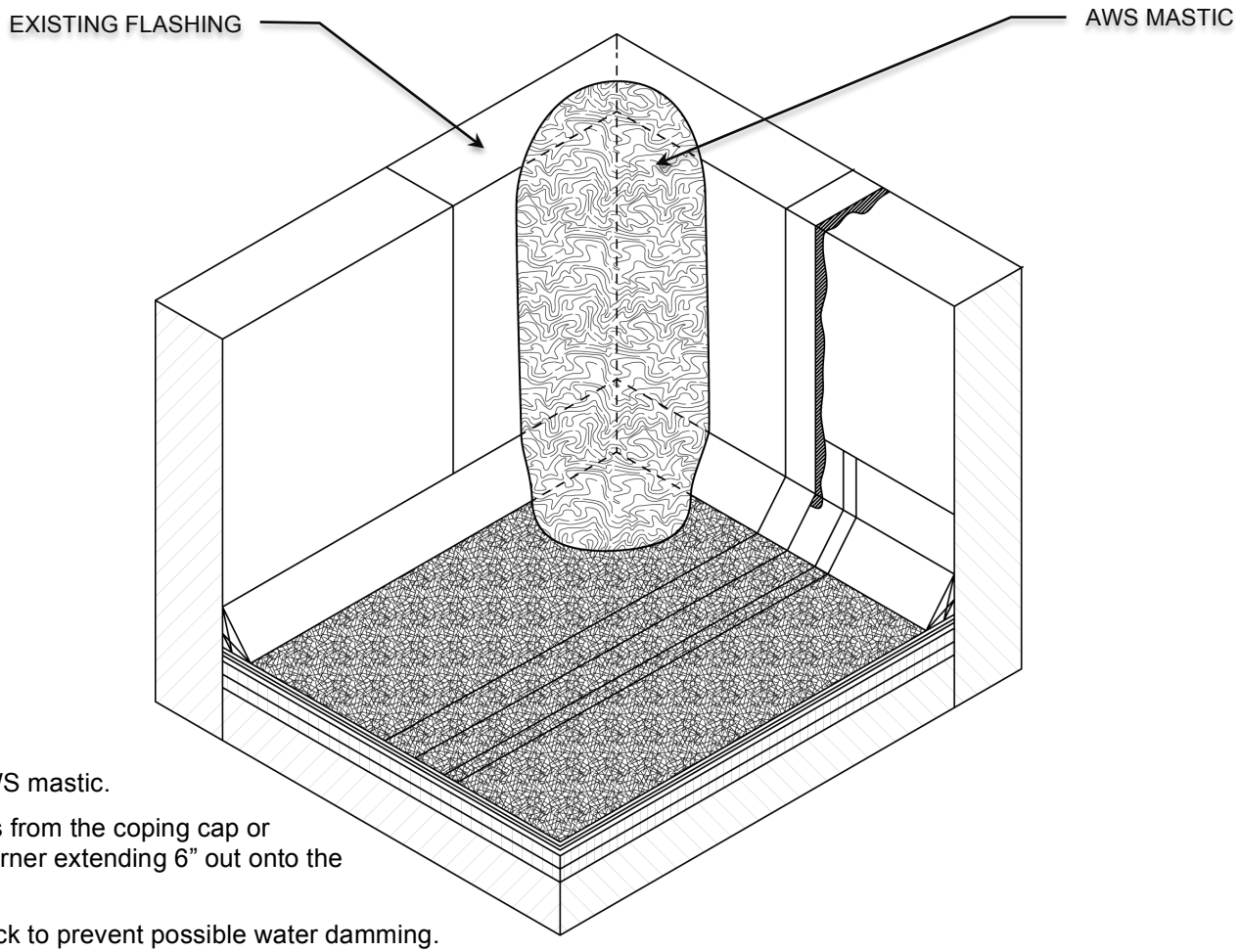
REVISION DATE: 10/30/2015

SCALE: NTS

FLAT ROOF: MASTIC



1. Apply an 6” wide layer of AWS mastic.
2. Apply at a rate of 90 wet mils from the coping cap or counter flashing down the corner extending 6” out onto the existing roof membrane.
3. Feather mastic on to roof deck to prevent possible water damming.

NOTE: Contact American WeatherStar with any questions.

American WEATHERSTAR
800.771.6643
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INSIDE CORNER RESTORATION DETAIL

See specific application guideline for suitable AWS mastic.

LEGEND

MASTIC

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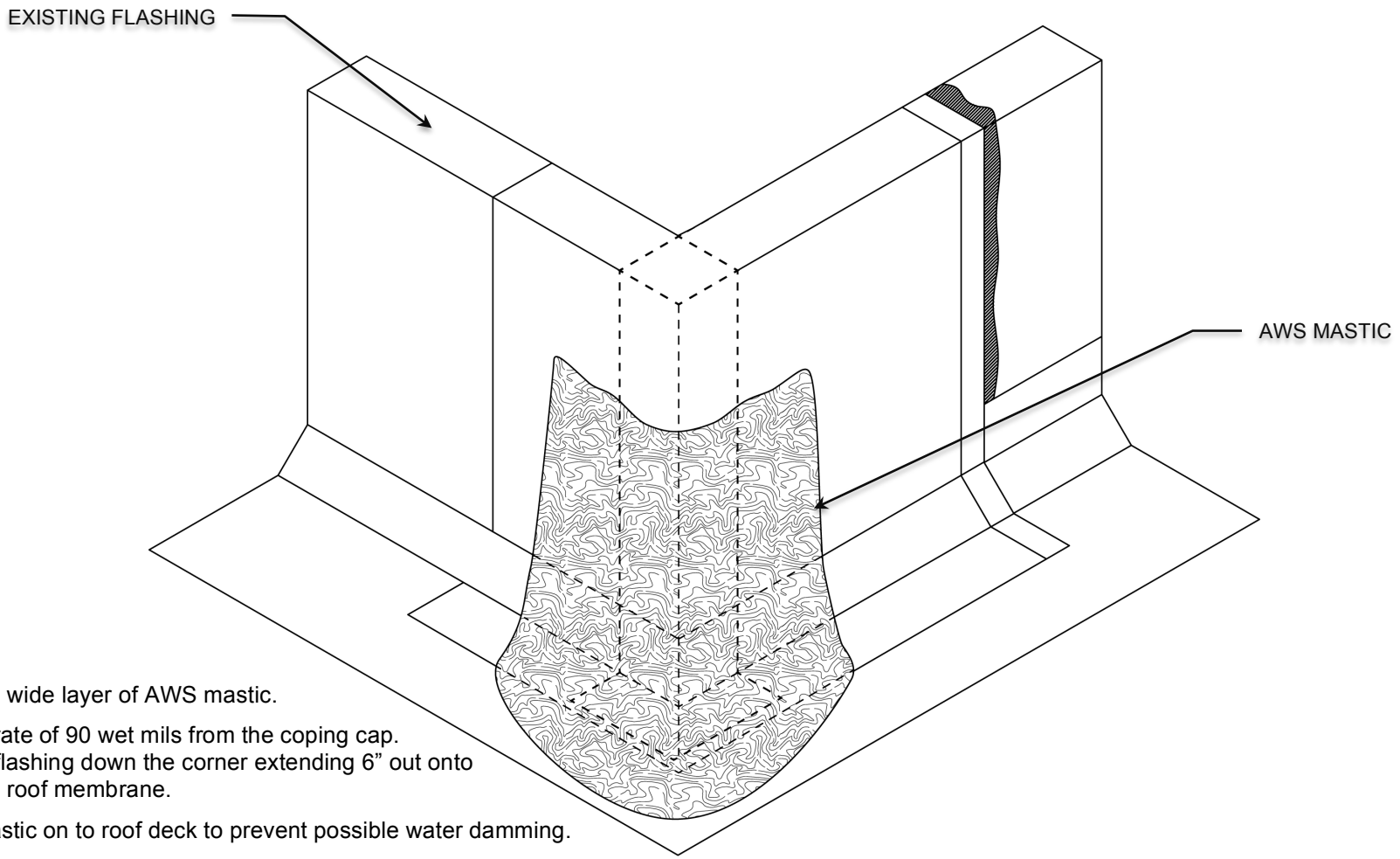
REVISION DATE: 10/30/2015

SCALE: NTS

FLAT ROOF: MASTIC



1. Apply an 6” wide layer of AWS mastic.
2. Apply at a rate of 90 wet mils from the coping cap. or counter flashing down the corner extending 6” out onto the existing roof membrane.
3. Feather mastic on to roof deck to prevent possible water damming.

NOTE: Contact American WeatherStar with any questions.

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OUTSIDE CORNER RESTORATION DETAIL

See specific application guideline for suitable AWS mastic.

LEGEND

MASTIC

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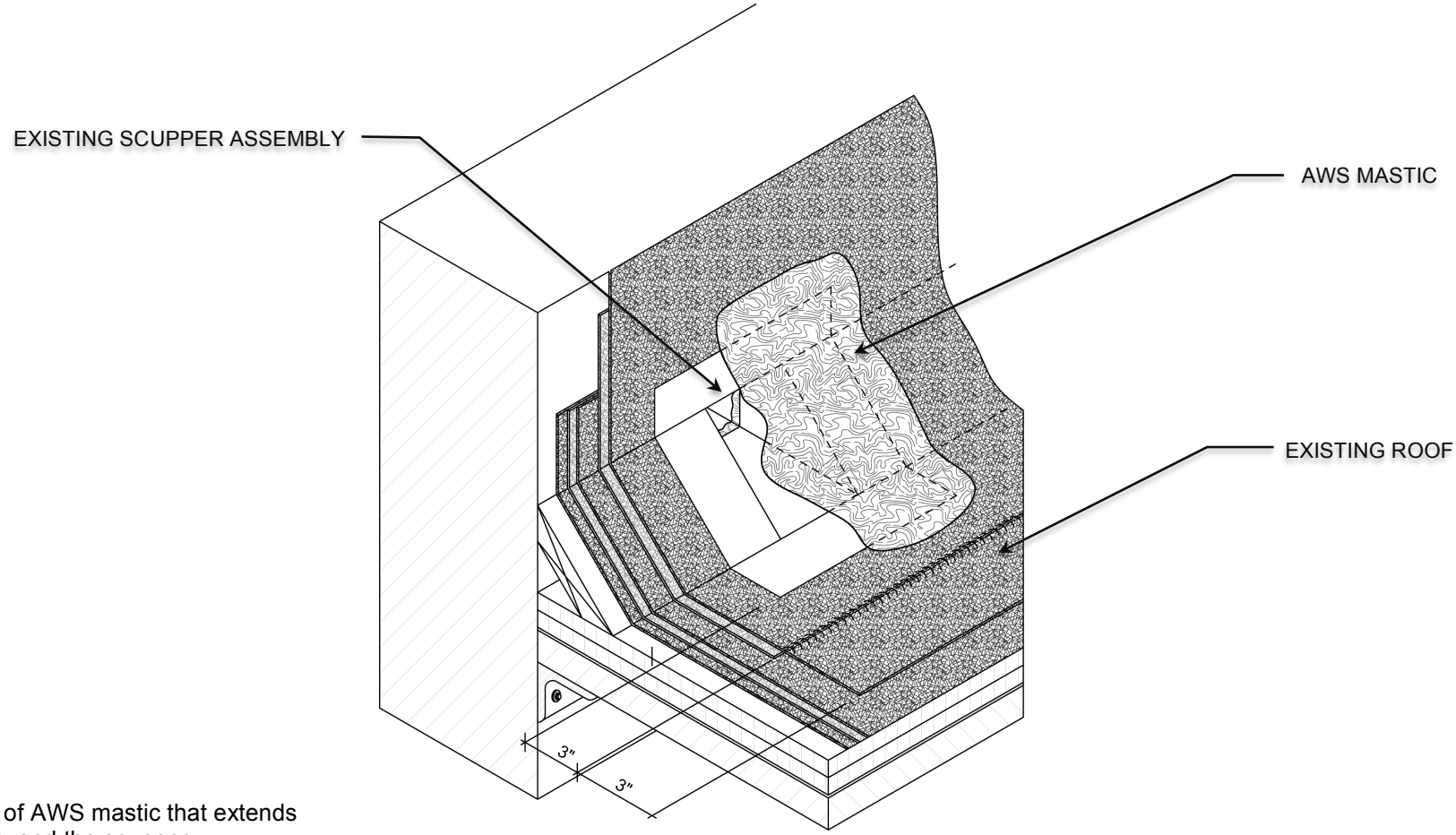
REVISION DATE: 10/30/2015

SCALE: NTS

FLAT ROOF: MASTIC



1. Apply a layer of AWS mastic that extends into and 6” beyond the scupper.
2. Apply at 90 wet mils to achieve a minimum of 60 dry mils feathered to prevent water damming.

NOTE: Contact American WeatherStar with any questions.

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SCUPPER RESTORATION DETAIL

See specific application guideline for suitable AWS mastic.

LEGEND

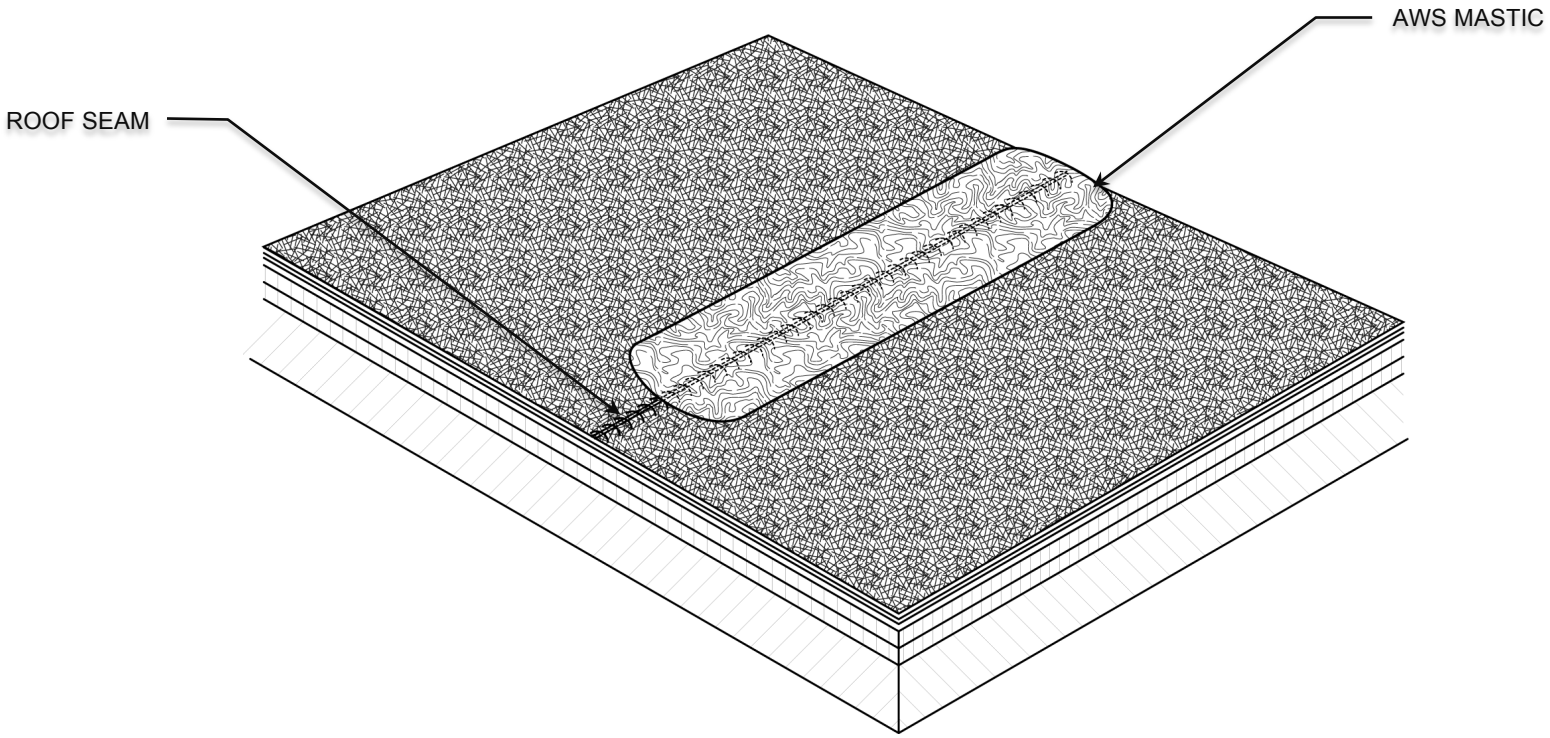
MASTIC

NOTE: This detail is provided to show a generally recommended procedure for dealing with the condition shown. It will not and cannot provide a specific solution for every condition likely to be encountered in field application. Where field conditions differ, the use of applicable portions of the detail shown or its adaptation by an experienced and conscientious applicator should result in a quality project.

REVISION DATE: 10/20/2015

SCALE: NTS

FLAT ROOF: MASTIC



1. Apply a 4” wide layer of AWS mastic over existing roof membrane seam (Heat welded seams need not be reinforced if probed and proven to be in factory specification condition)
2. Apply at a rate of 50 wet mils to achieve a minimum of 30 dry mils feathered to prevent water damming.
3. Feather AWS mastic on to existing metal roof to prevent possible water damming.

NOTE: Force mastic into seam to insure no void exists between mastic and roof membrane. Contact American WeatherStar with any questions.

800.771.6643
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SEAM DETAIL

See specific application guideline for suitable AWS mastic.

LEGEND

MASTIC

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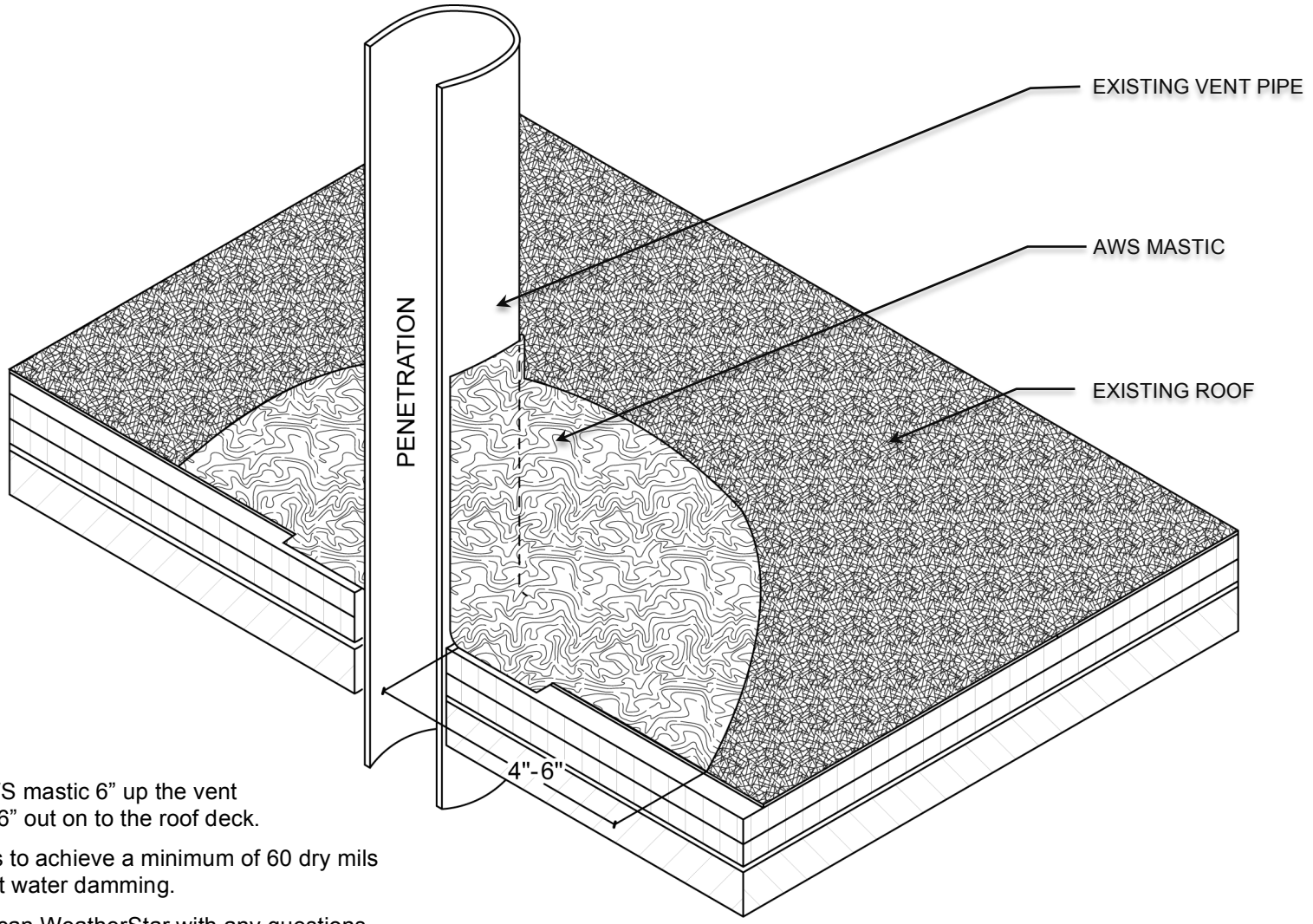
REVISION DATE: 10/30/2015

SCALE: NTS

FLAT ROOF: MASTIC



1. Apply a layer of AWS mastic 6” up the vent pipe and feathered 6” out on to the roof deck.
2. Apply at 90 wet mils to achieve a minimum of 60 dry mils feathered to prevent water damming.

NOTE: Contact American WeatherStar with any questions.

800.771.6643
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VENT PIPE RESTORATION DETAIL

See specific application guideline for suitable AWS mastic.

LEGEND

MASTIC

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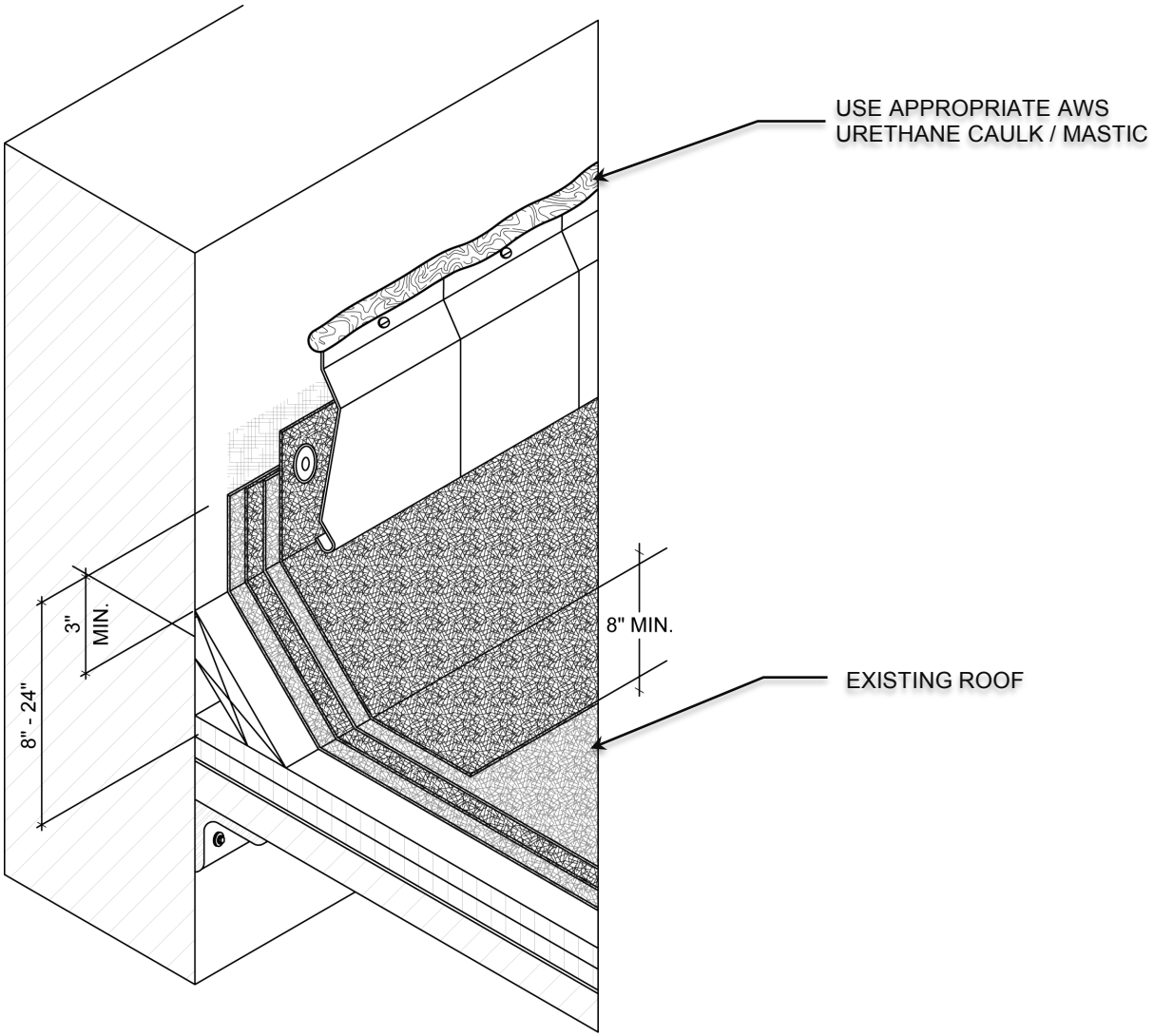
REVISION DATE: 10/20/2015

SCALE: NTS

FLAT ROOFS



NOTE: Contact American WeatherStar with any questions.

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WALL TERMINATION RESTORATION DETAIL

See specific application guideline for suitable AWS fabric bond coating.

LEGEND

MASTIC

NOTE: This detail is provided to show a generally recommended procedure for dealing with the condition shown. It will not and cannot provide a specific solution for every condition likely to be encountered in field application. Where field conditions differ, the use of applicable portions of the detail shown or its adaptation by an experienced and conscientious applicator should result in a quality project.

REVISION DATE: 10/20/2015

SCALE: NTS

Envir-O-Sil
LOW-VOC ROOF COATING SYSTEM

StarGard™ (20-Year) NDL System Elite Warranty

This NDL (No Dollar Limit) System Elite Warranty is issued with consideration of the warranty fee paid to American WeatherStar®, an Alabama Limited Liability Company, (LLC), with offices in Mobile, Alabama. American WeatherStar warrants to the Building Owner, subject to the Terms, Conditions and Limitations stated herein, that American WeatherStar will repair any leak in the American WeatherStar System installed by an American WeatherStar Approved Contractor commencing with the date of American WeatherStar's acceptance of the installation. The watertight integrity of walls, parapet walls, vents, rooftop equipment, gutters, and adjacent structures is not covered unless otherwise stated in written form by an officer of American WeatherStar, LLC.

StarGard Warranty Number:

Effective Date:

Building Owner:

Company Name
Address
City, State, Zip
Contact
Phone

Location of Building:

Company Name
Address
City, State, Zip
Contact
Phone

American WeatherStar Approved Contractor:

Company Name
City, State, Zip

StarGard Warranty Services:

Phone: 800.771.6643
Email: warranties@americanweatherstar.com

American WeatherStar Officer Signature:

_____

American WEATHERSTAR™

TERMS, CONDITIONS, AND LIMITATIONS

This StarGard™ NDL System Elite Warranty applies to use of the product on commercial and industrial buildings only. There is no dollar limit on covered repairs. Owner shall provide American WeatherStar with written notice within ten (10) days of the discovery of a leak in the System. American WeatherStar and/or its Contractor shall have the right to inspect the system to determine the cause(s) of the leak before incurring any obligation hereunder. Any repairs made with other than the appropriate American WeatherStar product(s) without prior approval from American WeatherStar will render this Warranty null. American WeatherStar reserves the right to charge a re-inspection fee to the Owner in the event the cause of the leak is not covered by this Warranty.

If upon inspection American WeatherStar determines that the leak in the System is caused by defects in the American WeatherStar materials or workmanship of the installing Approved Contractor, the owner's remedies and American WeatherStar's liability shall be limited to American WeatherStar's repair of the leak.

This warranty shall not apply to damage caused by:

1. Flood, fires, earthquakes, tornadoes, hail, lightning, hurricanes or other acts of God.
2. Installation, erection or construction of any additional equipment and/or structure on or through roofing substrate or flashing after date of application of the System.
3. Failure of, or repairs to, substrate and/or defects in any component underlying the roofing substrate, flashing, or caused by faulty construction and/or design.
4. Application of, or repairs to, substrate and/or flashing after the date of the original application of the system.
5. Exposure to chemicals and/or substances, which have been determined by American WeatherStar to be harmful to its elastomeric roof coating system.
6. Acts of negligence, abuse, accidents, vandalism, falling objects, civil disobedience, war or any other acts beyond the control of American WeatherStar
7. Movement or deterioration of material adjacent to or through the American WeatherStar system.
8. Condensation. Condensation is caused from lack of ventilation and/or insulation.
9. Owner's or the building occupant's failure to use reasonable care in maintaining the roof and building.

American WeatherStar requires an annual documented inspection by an American WeatherStar Approved Contractor on all projects with a 20-year StarGard NDL System Elite Warranty. American WeatherStar and/or its Contractor shall have free and unrestricted access to the roof during regular business hours. Please contact American WeatherStar Warranty Services for complete details.

American WeatherStar shall have no obligation under this Warranty until all bills for installation, supplies, service, and Warranty charges have been paid in full to the American WeatherStar Contractor, American WeatherStar and other material suppliers. American WeatherStar's failure at any time to assert or enforce any of the Terms, Conditions and Limitations stated herein shall not be construed to be a waiver of such provision. American WeatherStar does not warranty products utilized in the installation which it has not furnished; and specifically disclaims liability under any theory of law, arising out of the installation and performance of, or damages sustained by or caused by, products not furnished or approved by American WeatherStar.

Owner's remedies stated herein are the sole and exclusive remedies for failure of the American WeatherStar system. American WeatherStar makes no other warranties, either expressed or implied, which extend beyond the face hereof. American WeatherStar specifically disclaims any implied warranties of merchantability of fitness for a particular purpose. Except as provided herein, American WeatherStar shall not be liable under any circumstance or theory of action, including but not limited to contract, tort, product liability or otherwise, or any incidental or consequential damages, including but not limited to loss of profit or damages to the building or any merchandise or other component therein. This warranty is limited solely to the repair of the roof coating system and does not include under any circumstances incidental or consequential damage of any kind to the building upon which the roof is affixed or its contents, loss of rent or profits or any inconvenience.

Any claim or dispute between Owner and American WeatherStar arising out of this warranty or relating to any material supplied or specifically required by AWS shall be governed by the laws of the State of Alabama, USA and resolved by final and binding arbitration in Mobile, AL, USA in accordance with the rules of the American Arbitration Association. If any provision of this Warranty shall be held to be legally invalid or unenforceable by any court of competent jurisdiction, all remaining provisions of this Warranty shall remain in full force and effect.

ACRYLIC BONDING PRIMER 905

DESCRIPTION

Acrylic Bonding Primer 905 is a durable, water-based primer suitable for priming most roofing structures before applying the appropriate topcoat. Structures suitable for the 905 include previously coated metal, smooth and granulated modified bitumen, and built up roofs.

ADVANTAGES

- Excellent adhesion to most roof surfaces
- Bonds to unstable substrates
- Provides a tough, adhesive, durable film
- Quick drying time
- Environmentally safe
- Easy to use, easy clean up, non-toxic, and VOC compliant water based coating

BASIC USES

Acrylic Bonding Primer 905 is designed to be used as an adhesion bonding primer before roof coatings are applied.

INSTALLATION

- **Mixing:** Acrylic Bonding Primer 905 is ready to use. Thinning is not required nor recommended.
- **Surface Prep:** All surfaces to be coated must be clean, dry and free of any oil, grease or dirt. Power washing is recommended. Any existing coating must be checked for good adhesion. Before application, any loosely adhered coating must be removed and bare surfaces must be prepared, cleaned and checked for compatibility.
- **Spray:** Airless sprayer. 1/2 gpm capacity with a #017 tip
- **Brush:** High-quality synthetic bristle brush
- **Roller:** Short nap roller

APPLICATION TEMPERATURES

Min Ambient: 50°F (10°C)
Max Ambient: 110°F (43.3°C)
Min Surface: 50°F (10°C)
Max Surface: 130°F (54.4°C)

Minimum temperatures must be rising following applications. Contact technical services for more information.

Do not apply when:

- Dew point is within 5°F (2.77°C) of ambient temperatures
- Precipitation, fog, or dew is imminent prior to cure of the product
- Freezing temperatures are expected prior to cure of the product

TECHNICAL DATA:

SOLIDS BY VOLUME:	38% ± 2%
TENSILE STRENGTH	N/A
VISCOSITY:	600-800 cps
WEIGHT:	8.4 ± .2 per gallon
FLASH POINT:	N/A
PERMEABILITY:	N/A
MINIMUM APPLICATION TEMP.:	50° F
DRYING TIME:	1-2 hours
SERVICE TEMP. RANGE:	-40° to 200° F
COLOR:	Black
PACKAGING:	5 gallon, 55 gallon

SAFETY INFORMATION:

Read the Safety Data Sheet (SDS) and container labels for detailed health and safety information. This product is intended for industrial use by properly trained professional applicators only.

AMERICAN WEATHERSTAR LLC
8095 Padgett Switch Rd. | Irvington, AL 36544 | USA
www.americanweatherstar.com | info@americanweatherstar.com
Toll Free: 800-771-6643 | Fax: 251-479-3602

HIGH-SOLIDS SILICONE 412

DESCRIPTION

High Solids Silicone 412 is a ready-to-use, high-solids, single-component, moisture-cure silicone coating. It serves as the standard specification for liquid-applied silicone coating used in spray polyurethane foam roofing, single-ply restoration, and for top-coating several American WeatherStar Fabric Systems.

ADVANTAGES

- Superior protection—forms a durable, weather-resistant rubber-like seal
- Excellent UV protection
- Superior adhesive and cohesive strength
- 92% Solids. Uses less material for same dry film thickness
- Low VOCs

BASIC USES

High Solids Silicone 412 provides elemental protection for architectural surfaces such as vertical walls, masonry, concrete, metal, single-ply roof membranes and sprayed-in-place polyurethane foam systems.

INSTALLATION

- **Mixing:** Mix before application to assure uniform color and consistency. Due to the combustible nature of this product, do not use an electric mixer.
- **Surface Prep:** All surfaces to be coated must be clean, dry, and paintable. It may be necessary to power wash and/or prime to enhance adhesion. See application guidelines for more details.
- **Application:** This product may be applied directly to any clean, dry surface. Polyurethane foam should be coated within 24 hours of application. Apply by spray, brush, or roller as received. No thinning or reducing is necessary. Subsequent coats should be applied within 24 hours of prior applications to insure full and uniform adhesion. It is not recommended that this product be applied at temperatures below 50°F (10°C), or if rain is expected within 1 hour of application. High Solids Silicone 412 may be applied at lower temperatures, however, the cure time will be extended.

WARRANTY

American WeatherStar warrants that the material supplied will meet or exceed physical properties as published. The contractor guarantees that workmanship will be free of defects in coating application. Since performance of previously installed substrate is beyond the control of American WeatherStar or the contractor, requests for additional warranty coverage shall be subject to prior approval by American WeatherStar.

TECHNICAL DATA

SOLIDS BY VOLUME:	92% ± 2%, ASTM D-2697
ELONGATION:	170 ± 25, ASTM D-2370
TENSILE STRENGTH:	450 ± 50, ASTM D-2370
FLASH POINT (COC):	290°F, ASTM D-92
HARDNESS:	50± 5 points (Shore A)
PERMEABILITY:	> 4 +, ASTM E-96, Procedure B
WATER ABSORPTION:	2%
EMISSIVITY:	Initial .89, C-1371
VOC:	< 50 Grams/Liter, ASTM D-3960, EPA Method 24
MINIMUM APPLICATION TEMP:	40°F
DRYING TIME:	1-4 hours
SERVICE TEMP. RANGE:	-40°F–350°F
REFLECTIVITY:	Initial .87, C-1549
SHELF LIFE:	12 months
CLEAN UP:	Mineral Spirits
COLOR:	Standard: white, gray, tan Premium and custom colors available*
PACKAGING:	5 gallon, 50 gallon

*See coatings color chart for more details.

SAFETY INFORMATION

Read the Safety Data Sheet (SDS) and container labels for detailed health and safety information. This product is intended for industrial use by properly trained professional applicators only.

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SILICONE BRUSH-GRADE 422

DESCRIPTION

Brush-Grade Silicone 422 is a ready-to-use, high-solids, single-component, moisture-cured silicone mastic designed for waterproofing penetrations, curbs, seams, and flashings areas.

ADVANTAGES

- Superior protection—forms a durable, weather-resistant rubber-like seal
- Excellent UV protection
- Superior adhesion to silicone-coated surfaces
- 95% Solids. Uses less material for same dry film thickness
- Low VOCs

BASIC USES

Brush-Grade Silicone 422 provides elemental protection for architectural surfaces such as vertical walls, masonry, concrete, metal, single-ply roof membranes sprayed-in-place polyurethane foam systems, and previously coated silicone areas.

INSTALLATION

- **Surface Prep:** All surfaces to be coated must be clean, dry, and paintable. It may be necessary to power wash and/or prime to enhance adhesion. See application guidelines for more details.
- **Application:** This product may be applied only to clean, dry, sound surfaces free of loose articles or other foreign matter. For best results, ambient temperature should be between 50-90°F. Higher temperatures will shorten the cure time and working time for proper application of granules before the material has skinned. Lower temperatures will lengthen the skin over tack-free and ultimate cure time.

WARRANTY

American WeatherStar warrants that the material supplied will meet or exceed physical properties as published. The contractor guarantees that workmanship will be free of defects in coating application. Since performance of previously installed substrate is beyond the control of American WeatherStar or the contractor, requests for additional warranty coverage shall be subject to prior approval by American WeatherStar.

TECHNICAL DATA

ELONGATION:	>275% at 73°F
TENSILE STRENGTH:	130 PSI at 73°F
HARDNESS:	50± 5 points (Shore A)
FLASH POINT:	200°F
PERMEABILITY:	4.2 Perms
VOLUME SOLIDS:	96% ± 3
VOC:	< 50 Grams/Liter
MINIMUM APPLICATION TEMP:	40°F
DRY TIME:	2-8 Hours
SERVICE TEMP. RANGE::	-40°F to 350°F
SHELF LIFE:	12 months
COLOR:	White
PACKAGING:	5 gallon , 2 gallon

SAFETY INFORMATION

Read the Safety Data Sheet (SDS) and container labels for detailed health and safety information. This product is intended for industrial use by properly trained professional applicators only.

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TERMINATOR 622

DESCRIPTION

Terminator 622 is a technologically-advanced, 100% solids, moisture-cure sealant/adhesive. This high-strength versatile product has excellent elasticity and adhesion, making it ideal for repairs. Designed for industrial use, it can be applied to most surfaces even when the area is wet. Not only is it waterproof, it is also UV stable and low VOC.

ADVANTAGES

- Self-leveling technology for all seams, fasteners, ridge caps, flashings, and penetrations
- Moisture-curing, multi-purpose, one-component sealant/adhesive
- Designed for industrial uses requiring elasticity, high strength, and excellent adhesion
- May be applied to surfaces at or below freezing temperatures—make all attempts to remove frost
- Performance at temperatures as low as -40° F
- Bonds to damp surfaces and is rain tolerant during cure
- Cures to a waterproof tough flexible sealant
- Low odor and minimal shrinkage
- Non-staining and mildew resistant
- UV resistant
- VOC compliant

BASIC USES

Industrial uses requiring high elasticity, high strength, and outstanding adhesion for a wide-range of substrates. Terminator 622 bonds aggressively to steel, aluminum, modified bitumen, built-up roofing, spray foam, styrofoam, eps, glass, wood, fiberglass, concrete, and coated metals.

INSTALLATION

- **Surface Prep:** All surfaces must be cleaned properly. Any existing coating must be checked for good adhesion. Before application, any loosely adhered coating must be removed and bare surfaces must be prepared, cleaned and checked for compatibility.
- **Brush:** High-quality synthetic bristle brush
- **Caulk Gun:** 28 fl. oz. cartridges

WARRANTY

American WeatherStar warrants that the material supplied will meet or exceed physical properties as published. The contractor guarantees that workmanship will be free of defects in coating application. Since performance of previously installed substrate is beyond the control of American WeatherStar or the contractor, requests for additional warranty coverage shall be subject to prior approval by American WeatherStar.

TECHNICAL DATA

SOLIDS BY VOLUME:	100%
ELONGATION:	500%
TENSILE STRENGTH:	200 psi
FLASH POINT:	N/A
HARDNESS:	25 (5 day ambient cure)
MINIMUM APPLICATION TEMP.:	32°F
DRY TIME:	2–12 hours
SERVICE TEMPERATURE:	-40° to 200°F
LOW TEMP FLEX:	-20°F
SLUMP:	Some self-leveling
COLOR:	White, Gray
PACKAGING:	10.3 oz tube, 2-gallon pail

SAFETY INFORMATION

Read the Safety Data Sheet (SDS) and container labels for detailed health and safety information. This product is intended for industrial use by properly trained professional applicators only.

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QUICK SPEC

Envir-O-Sil™

ROOF RESTORATION SYSTEM

The Eco-Friendly Flat Roof Restoration Solution

The Envir-O-Sil Roof Restoration System is the ideal solution for areas regulated by strict environmental standards. Utilizing low VOC High-Solids Silicone 412, the Envir-O-Sil System provides outstanding performance, UV protection, and weatherability—with minimal impact on the environment. Suitable substrates for this system include modified bitumen, built-up roofs, single-ply, EPDM, and spray polyurethane foam.

The Envir-O-Sil System offers facility managers and property owners a variety of money-saving benefits. It does more than just stop leaks—it effectively reduces maintenance costs, lowers building energy consumption, improves performance, and extends service life. Best of all, the Envir-O-Sil System costs significantly less than a traditional roof replacement.

Basic Uses

The Envir-O-Sil Roof Restoration System is an eco-friendly and low VOC system designed to restore and protect a variety of commercial and industrial roof surfaces from weathering and moisture intrusion. It is especially effective as a protective coating membrane for entire roof surface, to use for spot repair, and to provide additional protection for flashing.

Features/Benefits

- Stops leaks and vastly improves performance
- Costs significantly less than a total roof replacement
- Substantially reduces maintenance and energy costs
- Extends service life by restoring the existing roof membrane
- Industry-leading UV stability, reflectivity, and durability
- High-solids content, Low VOC, and environmentally safe
- Long-term warranty options available
- Provides minimal interruption to business

Suitable Substrates

- Built-Up Roofs
- EPDM
- Modified Bitumen
- Single-Ply
- Spray Polyurethane Foam

SURFACE PREPARATION 1

To ensure maximum adhesion, the roof is pressure washed to remove all dirt, dust, debris, and other foreign contaminants.

SEAMS/DETAILS 2

Seams and flashing details are coated with a thick “rubber-like” mastic to help withstand the expansion and contraction of the roof structure.

BASE COAT 3

A base coat of High-Solids Silicone 412 provides the system with exceptional flexibility, adhesion, and protection against moisture intrusion.

TOP COAT 4

A top coat of High-Solids Silicone 412 forms a seamless, watertight, membrane that provides industry-leading UV protection, reflectivity, and resistance to ponding water.

AVAILABLE

20 YEAR WARRANTY

American WEATHERSTAR®

QUICK SPEC

ADHESION TEST
To ensure a successful application, an adhesion test is recommended to ensure maximum adhesion of the High-Solids Silicone 412 base coat to the existing roof substrate(s).

PRE-INSPECTION
Before system application, pre-inspect the roof for necessary repairs. The inspection should include, but not be limited to:

- HVAC flashing
- Proper drainage
- Seams, terminations, reglets
- Roof penetrations
- Water leakage
- Sign or display anchorage
- Drains and location of drains
- Parapet roof detail
- Wet or damp insulation
- Coping and flashing

INSTALLATION TIPS
- All roof surfaces to be coated must be properly cleaned and prepared. Pressure washing at 3000-4000 psi is recommended.
- Existing coatings must be checked for proper adhesion. Before application, any loosely adhered coating must be removed and bare surfaces must be prepared, cleaned, and checked for compatibility. In some cases, the use of a primer may be necessary.
- High-Solids Silicone 412 may be applied using medium nap roller, synthetic brush, tank spreader, or airless spray equipment.
- Apply High-Solids Silicone 412 base coat to clean, dry, sound surfaces free of contaminants and other foreign matter.
- Depending on temperature and humidity, allow 2-8 hours for the High-Solids Silicone 412 base coat and top coat to cure. For technical assistance, contact your American WeatherStar Field Representative for more information.

STORAGE & HANDLING
Keep product sealed, stored in a dry, cool place away from heat, sparks, open flame, and moisture. Keep material stored above 65°F (18°C) and on wood pallets and/or off concrete surfaces.

TECHNICAL DATA

HIGH-SOLIDS SILICONE 412	
Solids by Volume	92% ± 2
Elongation	170 ± 25
Tensile Strength	450 ± 50
Reflectivity	Initial .87
Emissivity	Initial .89
VOC	<50 Grams/Liter
Permeability	>4 +
Clean Up	Mineral Spirits

Please see product data sheets for complete technical data.

SUBSTRATE	TERM	BASE COAT	INTERMEDIATE COAT	TOP COAT	TOTAL DFT*
BUR Modified Bitumen	10 years	High-Solids Silicone 412	–	High-Solids Silicone 412	30
	15 years	High-Solids Silicone 412	–	High-Solids Silicone 412	35
	20 years	High-Solids Silicone 412	–	High-Solids Silicone 412	40
EPDM Single-Ply	10 years	High-Solids Silicone 412	–	High-Solids Silicone 412	20
	15 years	High-Solids Silicone 412	–	High-Solids Silicone 412	30
	20 years	High-Solids Silicone 412	–	High-Solids Silicone 412	35
Spray Foam	10 years	High-Solids Silicone 412	–	High-Solids Silicone 412	20
	15 years	High-Solids Silicone 412	–	High-Solids Silicone 412	30

*Dry film thickness (DFT) is rounded to the nearest mil and is theoretical. Actual DFT varies depending on substrate, application technique, and waste factor.

NOTE: This document is intended as an overview of installation procedures only. Please refer to application guidelines for complete installation information. Published technical information is subject to change without notice. Please visit www.americanweatherstar.com or contact your Field Representative for current technical data.

American WEATHERSTAR®

Envir-O-Sil
LOW-VOC ROOF COATING SYSTEM

StarGard™ (20-Year) Roof Coating Material Warranty

American WeatherStar warrants to the building owner (Owner) named below, subject to the terms, conditions, and limitations set forth herein, that the roof coating system described below will maintain similar characteristics as described in our data sheet and system specifications during the period specified above. This material only warranty applies only to the coatings system and makes no claims about stopping leaks or any waterproofing to the building. Normal weathering of the system is expected. This warranty does not apply to labor or construction details.

StarGard Warranty Number:

Effective Date:

Building Owner:

Company Name
Address
City, State, Zip
Contact
Phone

Location of Building:

Company Name
Address
City, State, Zip
Contact
Phone

American WeatherStar Approved Contractor:

Company Name
City, State, Zip

StarGard Warranty Services:

Phone: 800-771-6643
Email: warranties@americanweatherstar.com

American WeatherStar Officer Signature:

_____

American WEATHERSTAR™

TERMS, CONDITIONS, AND LIMITATIONS

This StarGard™ Roof Coating Material Warranty is limited to mean the American WeatherStar brand coating material when installed in accordance with American WeatherStar Technical Specifications.

1. During the term of this warranty, American WeatherStar or its authorized representative shall have access to the roof for inspection during normal business hours.

2. If there is a failure of the coating system within the scope of this warranty during the period in which this material only warranty is in effect, American WeatherStar will, at its option, either ship the appropriate material needed to repair the coating system, or issue credit against the purchase new coatings from American WeatherStar.

3. Owner shall provide American WeatherStar with written notice of excessive deterioration allegedly due to a failure of the coatings along with pictures of the system within thirty (30) days of the discovery of such deterioration. Such notice shall be sent by express courier service to American WeatherStar, LLC, 3100 Lees Lane, Mobile AL 36693.

4. The remedy stated herein is the SOLE AND EXCLUSIVE REMEDY for failure of the coating system described above. Aws shall under no circumstances be liable for any incidental or consequential damages including but not limited to injury to any person or damages to the building or its contents including any damages relating to the presence of mold or mildew.

5. There are no express warranties except as stated herein, and American WeatherStar hereby disclaims the implied warranties of merchant ability and fitness for particular purpose. No representative has authority to make any representations other than those stated herein.

6. This warranty shall not be applicable to damage or loss caused in whole or in part by:
    a. natural disasters, including but not limited to lightning, hail, hurricanes, or similar natural disasters;
    b. vandalism, acts of war, or civil disturbances;
    c. alteration of the roof or installation of structures, fixtures or utilities on or through the roof without the prior written approval of AWS or AWS authorized representative.
    d. environmental fallout or overexposure to commercial/industrial solvents, acids, caustic fluids, oils, waxes, greases, absorbent clays, bleaches, plasticizers or other harmful chemicals;
    e. failure by the Owner or lessee to use reasonable care in maintaining the roof.
    f. traffic or storage of materials on the roof;
    g. infiltration or condensation of moisture in, through, around, or above the walls of the building;
    h. acts of parties other than AWS;
    i. failure of any materials other than the system supplied by American WeatherStar;
    j. insects or animals;
    k. deterioration or failure of any building component including, but not limited to, the roof substrate, walls or mortar; or, condensation accumulation in the roof assembly due to incorrect design or due to a reduction in the vapor barriers effectiveness,
    l. discoloration or odors caused by algae, fungi, or lichens:
    m. errors or omissions by architects or engineers not retained by American WeatherStar.

7. American WeatherStar reserves the right to suspend its obligations under this warranty if all bills for installation of the American WeatherStar roofing have not been paid in full to the roofing contractor named below and to the material supplier. Notwithstanding the foregoing, the provisions of paragraph 4 and 5 above shall remain in full force and effect.

8. This warranty may be transferred to a subsequent owner of the building; provided that, no such transfer of this warranty as provided herein shall extend the expiration date of this warranty.

9. Any claim or dispute between Owner and American WeatherStar arising out of this warranty or relating to any material supplied or specifically required by American WeatherStar shall be governed by the laws of the State of Alabama, USA and resolved by final and binding arbitration in Mobile AL, USA in accordance with the rules of the American Arbitration Association.

Safety Data Sheet
AWS Acrylic Bonding Primer 905

SDS Revision Date: 05/28/2015

SECTION 1: Identification

1.1. Product identifier

Product Identity	AWS Acrylic Bonding Primer 905
Alternate Names	AWS Acrylic Bonding Primer 905

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use	Coating for spray polyurethane foam.
Application Method	See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name	American WeatherStar, LLC. 3100 Lees Lane Mobile, AL 36693
Emergency	
24 hour Emergency Telephone No.	INFOTRAC— (800) 535-5053
Customer Service: American WeatherStar, LLC.	800-771-6643

SECTION 2: Hazard(s) Identification

GHS Classification

Carcinogenicity: Category 1A

GHS Label Elements

Hazard pictograms:

Signal word: Danger

Hazard statements: May cause cancer

Precautionary statements:

Prevention:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood
Wear permeation resistant protective gloves and clothing. Wear eye and face protection.

Response:
IF exposed or concerned: Get medical attention.

Storage:
Store locked up.

Disposal:
Dispose of contents and container in accordance with existing federal, state, and local environmental control laws.

SECTION 3: Composition/Information on Ingredients

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 28 %

Hazardous Components

Weight Percent	Components	CAS-No.	Classification
0.1 - 1%	Titanium dioxide (Rutile)	13463-67-7	Carcinogenicity Category 2 Inhalation. Specific target organ toxicity – single exposure Category 3 Respiratory system.
0.1 - 1%	Carbon Black	1333-86-4	Carcinogenicity Category 2 Inhalation. Specific target organ toxicity – single exposure Category 3 Respiratory system.
0.1 - 1%	Benzophenone	119-61-9	Carcinogenicity Category 2 Specific target organ toxicity – repeated exposure Category 2 Liver. Kidney
0.1 - 1%	Crystalline Quartz Silica	14808-60-7	Acute toxicity Category 4 Oral. Carcinogenicity Category 1A. Specific target organ toxicity - repeated exposure Category 1 Lungs.
0.1 - 1%	Titanium dioxide (rutile)	1317-80-2	Specific target organ toxicity – single exposure Category 3 Respiratory system. Carcinogenicity Category 3 Inhalation.

The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret.

SECTION 4: First Aid Measures

Most Important Symptom(s)/Effect(s)

Acute: Not expected to cause adverse acute health effects.

Eye Contact

In case of contact, flush eyes with plenty of lukewarm water. Get medical attention if irritation develops.

Skin Contact

In case of skin contact, wash affected areas with soap and water. Immediately remove contaminated clothing and shoes. Get medical attention if irritation develops and persists.

Inhalation

If inhaled, remove to fresh air. Get medical attention if irritation develops.

Ingestion

If ingested, do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

SECTION 5: Fire Fighting Measures

Suitable Extinguishing Media: All extinguishing media are suitable.

Unsuitable Extinguishing Media No Data Available

Fire Fighting Procedure
Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture.

Hazardous Decomposition Products
By Thermal Decomposition: carbon monoxide, carbon dioxide, Acrylic monomers, other potentially toxic fumes

Unusual Fire/Explosion Hazards
Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.

SECTION 6: Accidental release measures

Spill and Leak Procedures
Cleanup personnel must use appropriate personal protective equipment. Cover spill with inert material (e. g., dry sand or earth) and collect for proper disposal.

SECTION 7: Handling and Storage

Handling/Storage Precautions
Avoid breathing dust, vapor, or mist. Avoid contact with skin or clothing. Avoid contact with eyes. Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Keep container closed when not in use. Protect from freezing.

Storage Period:
12 Months

Storage Temperature
Minimum: 1 °C (33.8 °F)
Maximum: 49 °C (120.2 °F)
Storage Conditions
None known

Substances to Avoid
None known

SECTION 8: Exposure controls and personal protection

Titanium dioxide (Rutile) (13463-67-7)

US. ACGIH Threshold Limit Values
Time Weighted Average (TWA): 10 mg/m3

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Permissible exposure limit: 15 mg/m3 (Total dust.)

US. ACGIH Threshold Limit Values
Hazard Designation: Group A4 Not classifiable as a human carcinogen.

Carbon Black (1333-86-4)

US. ACGIH Threshold Limit Values
Time Weighted Average (TWA): 3.5 mg/m3

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Permissible exposure limit: 3.5 mg/m3

US. ACGIH Threshold Limit Values
Time Weighted Average (TWA): 3 mg/m3 (Inhalable fraction)

US. ACGIH Threshold Limit Values
Hazard Designation: Group A4 Not classifiable as a human carcinogen

US. ACGIH Threshold Limit Values
Hazard Designation: Group A3 Confirmed animal carcinogen with unknown relevance

Titanium dioxide (rutile) (1317-80-2)

US. ACGIH Threshold Limit Values
Time Weighted Average (TWA): 10 mg/m3

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Permissible exposure limit: 15 mg/m3 (Total dust.)

US. ACGIH Threshold Limit Values
Hazard Designation: Group A4 Not classifiable as a human carcinogen

Crystalline Quartz Silica (14808-60-7)

US. ACGIH Threshold Limit Values
Time Weighted Average (TWA): 0.025 mg/m3 (Respirable fraction.)

US. OSHA Table Z-3 (29 CFR 1910.1000)
Time Weighted Average (TWA): 2.4 millions of particles per cubic foot of air (Respirable.)The exposure limit is calculated from the equation, 250/(%SiO2+5), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.

US. OSHA Table Z-3 (29 CFR 1910.1000)
Time Weighted Average (TWA): 0.1 mg/m3 (Respirable.)The exposure limit is calculated from the equation, 10/(%SiO2+2), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.

US. OSHA Table Z-3 (29 CFR 1910.1000)
Time Weighted Average (TWA): 0.3 mg/m3 (Total dust.)The exposure limit is calculated from the equation, 30/(%SiO2+2), using a value of 100% SiO2. Lower values of % SiO2 will give higher exposure limits.

US. ACGIH Threshold Limit Values
Hazard Designation: Group A2 Suspected human carcinogen.

Any component which is listed in section 3 and is not listed in this section does not have a known ACGIH TLV, OSHA PEL or supplier recommended occupational exposure limit.

Industrial Hygiene/Ventilation Measures

When handling this product, ventilation of the work area is recommended

Respiratory Protection

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand Protection

Permeation resistant gloves Neoprene gloves.

Eye Protection

Chemical safety goggles or safety glasses with side-shields.

Skin Protection

Wear as appropriate, disposable one-piece overall with integral hood, impervious protective clothing.

Additional Protective Measures

Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product. Emergency showers and eye wash stations should be available.

SECTION 9: Physical and chemical properties

State of Matter:	liquid
Color:	Black
Odor:	Mild, Amine
Odor Threshold:	No Data Available
pH:	No Data Available
Freezing Point:	Approximately 0 °C (32 °F) similar to water
Boiling Point:	Approximately 100 °C (212 °F) similar to water
Flash Point:	Not applicable (water based product), however, solid material will support combustion if water has been evaporated.
Evaporation Rate:	No Data Available
Lower Explosion Limit:	No Data Available
Upper Explosion Limit:	No Data Available
Vapor Pressure:	17 mmHg @ 20 °C (68 °F) similar to water
Vapor Density:	No Data Available
Density:	No Data Available
Relative Vapor Density:	No Data Available
Specific Gravity:	1.5
Solubility in Water:	No Data Available
Partition Coefficient: n-octanol/water:	No Data Available
Auto-ignition Temperature:	No Data Available
Decomposition Temperature:	No Data Available
Dynamic Viscosity:	No Data Available
Kinematic Viscosity:	No Data Available
Bulk Density:	

SECTION 10: Stability and reactivity

Hazardous Reactions
Hazardous polymerization does not occur.

Stability
Stable

Materials to Avoid
None known.

Hazardous Decomposition Products
By Thermal Decomposition: carbon monoxide, carbon dioxide, Acrylic monomers, other potentially toxic fumes

SECTION 11: Toxicological information

Likely Routes of Exposure: Skin Contact
Eye Contact
Inhalation

Health Effects and Symptoms
Acute: Not expected to cause adverse acute health effects.
Chronic: May cause cancer.

Toxicity Data for EVERPRIME GP

No data available for this product.

Toxicity Data for Titanium dioxide (Rutile)
Acute Oral Toxicity
LD50: > 5000 mg/kg (rat, female) (OECD Test Guideline 425)

Acute Inhalation Toxicity
LC50: > 6.82 mg/l, 4 h (rat, male)

Acute Dermal Toxicity
LD50: > 10000 mg/kg (rabbit)

Skin Irritation
rabbit, OECD Test Guideline 404, Exposure Time: 24 h, Non-irritating

Eye Irritation
rabbit, OECD Test Guideline 405, Non-irritating

Sensitization
dermal: non-sensitizer (Guinea pig, Maximization Test)

dermal: non-sensitizer (Human, Patch Test)

Skin sensitization (local lymph node assay (LLNA)):: negative (mouse, OECD Test Guideline 429)

Repeated Dose Toxicity
28 Days, inhalation: NOAEL: 35 mg/m3, (Rat)

29 days, Oral: NOAEL: 24,000 mg/kg, (rat, male, daily)

up to 2 years, inhalation: NOAEL: 0.01 mg/l, (Rat, male/female, 6 hrs/day 5 days/week)

Mutagenicity
Genetic Toxicity in Vitro:
Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without)
Mammalian cell - gene mutation assay: negative (Mouse lymphoma cells (L5178Y/TK), Metabolic Activation: with/without)
Chromosome aberration test: negative (Chinese hamster ovary (CHO) cells, Metabolic Activation: with/without)

Genetic Toxicity in Vivo:
Drosophila SLRL test: negative (Drosophila melanogaster) negative

Cytogenetic assay: negative (mouse, male, intraperitoneal) negative

Carcinigenicity
Rat, Male/Female, inhalation, According to IARC, several rat inhalation and intratracheal installation studies using titanium dioxide have shown increases in benign and malignant lung tumors. Reviewed human exposure data did not suggest an association between occupational exposure to titanium dioxide and risk for cancer. Additionally, the IARC working group determined that, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other material, such**r** as in paints."

Other Relevant Toxicity Information
May cause irritation of respiratory tract.

Toxicity Data for Carbon Black
Acute Oral Toxicity
LD50: > 8000 mg/kg (rat, male/female) (OECD Test Guideline 401)

Acute Dermal Toxicity
LD50: > 3000 mg/kg (rabbit)

Skin Irritation
rabbit, Non-irritating

Eye Irritation
Human, non-irritant

Sensitization
Buehler Test: negative (guinea pig, OECD Test Guideline 406)
Skin sensitization (local lymph node assay (LLNA)):: negative (mouse, OECD Test Guideline 429)

Repeated Dose Toxicity
13 weeks, Inhalative: NOAEL: 0.0011 mg/kg, (rat,)

Mutagenicity
Genetic Toxicity in Vitro:
Salmonella/microsome test (Ames test): negative Mammalian cell - gene mutation assay: positive (other mammalian cell line, Metabolic Activation: without) Micronucleus test: positive (other human cell line, Metabolic Activation: without)

Genetic Toxicity in Vivo:
Other assay: negative (mouse, male, intraperitoneal) negative

Carcinogenicity
Several inhalation studies involving carbon black in female rats have shown increases in benign and malignant lung tumors. Although a large body of data on possible mechanisms of carcinogenicity in rats was considered by the IARC Working Group, it was not possible to state with confidence that the mechanisms of carcinogenicity in rats correlate to exposure in humans. Tumors have not been observed in other animal species (i.e., mouse and hamster) under similar circumstances and study conditions.

Developmental Toxicity/Teratogenicity
rat, female, Inhalative, 10 days, daily,

Other Relevant Toxicity Information
May cause irritation of respiratory tract.

Toxicity Data for Benzphenone
Acute Oral Toxicity
LD50: 2895 mg/kg (mouse) (OECD Guideline 401)

Acute Dermal Toxicity
LC50: 3535 mg/kg (rabbit)

Skin Irritation
Rabbit, OECD Test Guideline 404, Non-irritating

Sensitization
Non-sensitizer: (guinea pig)
Magnusson/Kligmann (Maximization Test); non-sensitizer (Guimea pig)

Repeated Dose Toxicity
90d, oral: NOAEL: 20 mg/kg, LOAEL: 100 mg/kg, (rate male/female, daily)
14 weeks, oral: (rat, male/female)

Mutagenicity
Genetic Toxicity in Vitro:
Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without)
Mammalian cell - gene mutation assay: negative (Mouse lymphoma cells (L5178Y/TK), Metabolic Activation: with/without)

Genetic Toxicity in Vivo:
Micronucleus Assay: negative (mouse, male, intraperitoneal)
negative

Carcinogenicity
mouse, female, dermal, life span, No carcinogenic effects observed at the doses tested.

Toxicity to Reproduction/Fertility
Two-generation study, Oral, (rat, male/female) NOAEL (parental): 100 ppm, NOAEL (F1): 450 ppm,

NOAEL (F2): 450 ppm

Developmental Toxicity/Teratogenicity
rat, female, Oral, GD 6-19, daily, NOAEL (maternal): < 100 mg/kg,

Toxicity Data for Crystalline Quartz Silica
Acute Oral Toxicity
LD50: 500 mg/kg (rat)

Mutagenicity
Genetic Toxicity in Vitro:
Ames: Negative results were reported in various in vitro studies. (Salmonella typhimurium, Metabolic Activation: with/without)

Genetic Toxicity in Vivo:
Sister Chromatid Exchange: ambiguous (hamster) ambiguous

Carcinogenicity
rat, Male/Female, inhalation, 2 years, 6 hrs/day 5 days/week, positive

Toxicity Data for Titanium dioxide (rutile)
Acute Oral Toxicity
LD50: > 10000 mg/kg (rat)

Acute Inhalation Toxicity
LC50: > 6.8 mg/l, 4 h (rat)

Skin Irritation
rabbit, Non-irritating

Eye Irritation
rabbit, Non-irritating

Sensitization
Skin sensitization (local lymph node assay (LLNA)):: negative (mouse, OECD Test Guideline 429)

Repeated Dose Toxicity
29 days, Oral: NOAEL: 24,000 mg/kg, (rat, male, daily) up to 2 years, Inhalation: NOAEL: 0.01 mg/l, (rat, male/female, 6 hrs/day 5 days/week)

Mutagenicity
Genetic Toxicity in Vitro:
Other assay: negative, Negative results were reported in various in vitro studies. (Bacillus subtilis) Mammalian cell - gene mutation assay: negative, Negative results were reported in various in vitro studies. (Mouse lymphoma cells (L5178Y/TK), Metabolic Activation: with/without) Chromosome aberration test: negative, Negative results were reported in various in vitro studies. (Chinese hamster ovary (CHO) cells, Metabolic Activation: with/without)

Genetic Toxicity in Vivo: Cytogenetic assay: negative (mouse, male, intraperitoneal) negative

Carcinogenicity
Rat, Male/Female, inhalation, According to IARC, several rat inhalation and intratracheal installation studies using titanium dioxide have shown increases in benign and malignant lung tumors. Reviewed human exposure data did not suggest an association between occupational exposure to titanium dioxide and risk for cancer. Additionally, the IARC working group determined that, "No significant exposure to

titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other material, such as in paints."
Animal experiments showed a statistically significant number of tumors. Rat, male/female, oral, 103 weeks, daily, No carcinogenic effects observed at the doses tested. Mouse, Male/Female, oral, 103 days, daily, No carcinogenic effects observed at the doses tested.

Toxicity to Reproduction/Fertility
Three generation study, oral, (Rat) NOAEL (parental): 5 mg/L (as Titanium), Reproductive effects have been observed in animal studies.

Other Relevant Toxicity Information
May cause irritation of respiratory tract.

Carcinogenicity:

Titanium dioxide (rutile)	IARC - Overall evaluation: 2B Possibly carcinogenic to humans.
Titanium dioxide (Rutile)	IARC - Overall evaluation: 2B Possibly carcinogenic to humans.
Carbon Black	IARC - Overall evaluation: 2B Possibly carcinogenic to humans.
Benzophenone	IARC - Overall evaluation: 2B Possibly carcinogenic to humans.
Crystalline Quartz Silica	NTP - Hazard Designation: Known To Be Human Carcinogen. IARC - Overall evaluation: 1 Carcinogenic to humans.

SECTION 12: Ecological information

No data available for this product.

Ecological Data for Titanium dioxide (Rutile)
Acute and Prolonged Toxicity to Fish
LC0: > 1,000 mg/l (Golden orfe (Leuciscus idus), 48 h)

Acute Toxicity to Aquatic Invertebrates
EC0: > 3 mg/l (Water flea (Daphnia magna))

Toxicity to Microorganisms
EC0: > 10,000 mg/l, (Pseudomonas fluorescens, 24 h)

Ecological Data for Carbon Black
Acute and Prolonged Toxicity to Fish
LC0: > 1,000 mg/l (Danio rerio (zebra fish), 96 h)

Acute Toxicity to Aquatic Invertebrates
EC50: > 5,600 mg/l (Water flea (Daphnia magna), 24 h)

Toxicity to Microorganisms
EC0: 100 - 800 mg/l, (Activated sludge microorganisms, 3 h)

Ecological Data for Benzophenone
Biodegradation
aerobic, 0 %,
0 %, Exposure time: 28 d, i.e. not readily degradable

Bioaccumulation
Does not bioaccumulate.

Acute and Prolonged Toxicity to Fish
LC50: 15.3 mg/l (Fathead minnow (Pimephales promelas), 96 h)

Ecological Data for Titanium dioxide (rutile)
Additional Ecotoxicological Remarks
No data available for this component.

SECTION 13: Disposal Considerations

Waste Disposal Method
Waste disposal should be in accordance with existing federal, state and local environmental control laws.

Container Precautions
Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning.

SECTION 14: Transport Information

Land transport (DOT)
Non-Regulated

Sea transport (IMDG)
Non-Regulated

Air transport (ICAO/IATA)
Non-Regulated

SECTION 15: Regulatory Information

United States Federal Regulations
US. Toxic Substances Control Act: Listed on the TSCA Inventory.

US. EPA CERCLA Hazardous Substances (40 CFR 302) Components:
None

SARA Section 311/312 Hazard Categories:
Chronic Health Hazard

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) Components:
None

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required Components:
1,3-Benzenedicarbonitrile, 2,4,5,6-tetrachloro-

US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261):
Under RCRA, it is the responsibility of the person who generates a solid waste, as defined in 40 CFR 261.2, to determine if that waste is a hazardous waste.

State Right-To-Know Information
The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:

Weight percent	Components	CAS-No.
>=1%	Water	7732-18-5
>=1%	Acrylic Polymer	
25 - 35%	Limestone	1317-65-3
0.1 - 1%	Titanium dioxide (rutile)	1317-80-2
5 – 10%	Titanium dioxide (Rutile)	13463-67-7
0.1 - 1%	Carbon Black	1333-86-4
0.1 - 1%	Benzophenone	119-61-9
0.1 - 1%	Crystalline Quartz Silica	14808-60-7

New Jersey Environmental Hazardous Substances List and/or New Jersey RTK Special Hazardous Substances Lists:

Weight percent	Components	CAS-No.
0.1 - 1%	Carbon Black	1333-86-4
0.1 - 1%	Crystalline Quartz Silica	14808-60-7

Massachusetts Right to Know Extraordinarily Hazardous Substance List:

Weight percent	Components	CAS-No.
0.1 - 1%	Crystalline Quartz Silica	14808-60-7

California Prop. 65:
Warning! This product contains chemical(s) known to the State of California to be Carcinogenic. Developmental toxin. Female reproductive toxin. Male reproductive toxin.

Weight percent	Components	CAS-No.
0.1 - 1%	Titanium dioxide (rutile)	1317-80-2
0.1 - 1%	Titanium dioxide (Rutile)	13463-67-7
0.1 - 1%	Carbon Black	1333-86-4
0.1 - 1%	Benzophenone	119-61-9
0.1 - 1%	Crystalline Quartz Silica	14808-60-7

Based on information provided by our suppliers, this product is considered “DRC Conflict Free” as defined by the SEC Conflict Minerals Final Rule (Release No. 34-67716; File No. S7-40-10; Date: 2012-08-22).

SECTION 16: Other information

The method of hazard communication for American WeatherStar is comprised of Product Labels and Safety Data Sheets.

Safety Data Sheet
AWS Acrylic Bonding Primer 905

SDS Revision Date: 05/28/2015

Contact:	INFOTRAC
Telephone:	(800) 535-5053
Version Date:	05/28/2015
SDS Version:	1.1

This information is furnished without warranty, express or implied. This information is believed to be accurate to the best knowledge American WeatherStar. The information in this SDS relates only to the specific material designated herein. American WeatherStar assumes no legal responsibility for use of or reliance upon the information in this SDS.

SAFETY DATA SHEET

ECOCLEANER 925

SECTION 1: IDENTIFICATION

Product Name:	EcoCleaner 925
Chemical Family:	General Purpose Detergent/Degreaser
Recommended Use/Restrictions:	General Purpose Detergent/Degreaser
Manufacturer:	American WeatherStar, LLC. 3100 Lees Lane Mobile, AL 36693
24-Hour Emergency Phone:	INFOTRAC – (800) 535-5053
Information Only:	800-771-6643

SECTION 2: HAZARDS IDENTIFICATION

Physical Hazards: Not Classified

Health Hazards:
Acute Toxicity, Oral – Not Classified
Acute Toxicity, Dermal – Not Classified
Skin Corrosion/Irritation – Category 2
Serious Eye Damage/Irritation – Category 2A

GHS Label Elements:

Signal Word: Warning

Hazard Statements: Causes skin irritation. Causes serious eye irritation.

Precautionary Statements:

Prevention:
Wear safety glasses with side shields (or goggles). Wear protective gloves. Wash hands thoroughly after handling.

Response:
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get Medical advice/attention. Wash contaminated clothing before reuse.

Storage:
Store away from incompatible materials. Keep out of reach of children.

Disposal:
Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC): Not Known

Supplemental Information: Not Known

SECTION 3: COMPOSITION/INFORMATION ON INGRIDIENTS

Chemical Name	CAS Number	% by Weight
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	110615-47-9	1-5%
D-Glucopyranose, oligomeric, C8-10-alkyl glycosides	68515-73-1	2-10%
xylenesulphonate (SXS)	1300-72-7	2-10%
tetrasodium ethylenediaminetetraacetate	64-02-8	1-5%
Alcohols, C9-11, ethoxylated	68439-46-3	5-25%
N,N-dimethyl 9-decenamide	1356964-77-6	1-10%
Other materials below reportable quantities	–	50-70%

SECTION 4: FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Skin Contact: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Inhalation: Move to fresh air. Call a physician if symptoms develop or persist.

Ingestion: Rinse mouth. Get medical attention if symptoms occur.

SECTION 5: FIREFIGHTING MEASURES

Suitable Extinguishing Media: Water fog. Foam. Dry chemical powder. Carbon dioxide (C02).

Unsuitable Extinguishing Media: Not Known

Specific hazards arising from the chemical: During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Keep unnecessary personnel away. Ensure adequate ventilation. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see Section 8 of the SDS.

Methods and materials for containment and cleaning up
Large Spills: Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see Section 13 of the SDS.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:
Wear appropriate personal protective equipment. Avoid contact with eyes. Avoid contact with skin. Avoid contact with clothing. Provide adequate ventilation. Do not mix with other chemicals. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities:
Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep at temperature between 4 and 49C. Keep out of reach of children.

SECTION 8: HANDLING AND STORAGE

Appropriate Engineering Controls:	Use general ventilation. Provide eyewash station.
Individual Protection Measures: (such as personal protective equipment, eye/face protection)	During fire, gases hazardous to health may be formed.
Hand Protection:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Skin Protection:	Avoid contact, wash off if contact occurs.
Respiratory Protection:	No personal respiratory protective equipment normally required.
General Hygiene Considerations:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear
Form:	Liquid
Color	Light Amber
Odor:	Slightly Sweet
Odor Threshold:	Not Available
pH:	9.7 Concentrate, 9.2 (1:10 dilution)
Melting Point/Freezing Point:	32°F (0°C)
Boiling Point	212°F (100°C)
Flash Point:	None to boiling
Evaporation Rate:	Not available
Flammability (solid, gas)	Not available

Upper/lower flammability or explosive limits:

Flammability limit – lower (%)	Not available
Flammability limit – upper (%)	Not available
Vapor Pressure:	Not available
Vapor Density:	Not available
Solubility(ies):	
Solubility (water):	Not available
Partition Coefficient: n-octane/water	Not available
Auto-ignition Temperature:	Not available
Decomposition Temperature:	Not available
Viscosity:	Water-thin
Specific Gravity:	1.09
VOC (Weight %)	0

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical Stability:	Material is stable under normal conditions.
Possibility of Hazardous Reactions:	No dangerous reaction known under conditions of normal use
Conditions to Avoid:	Contact with incompatible materials. Do not mix with other chemicals.
Incompatible Materials:	Acids. Oxidizing agents.
Hazardous Decomposition Products:	No hazardous decomposition products are known.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity Data:

Product: Test Results:

Components Species Alcohols, Ethoxylated (CAS 68439-46-3)
Dermal Acute
LD50 Rabbit 2000 mg/kg, 24 hours
LD50 Rat > 2000 mg/kg, 24 hours
Inhalation
LC50 Rat > 1600 mg/m3, 4 hours aerosol
LC50 Rat > 100 mg/m3, 6 hours vapor
LC50 Rat > 1.6 mg/l, 4 hours aerosol
Oral
LD50 Rat 3488 mg/kg

Information on likely routes of exposure:

Skin Contact:	Causes skin irritation
Eye Contact:	Causes serious eye irritation
Ingestion:	Expected to be a low ingestion hazard
Inhalation:	No adverse effects due to inhalation are expected

Symptoms related to the physical, chemical and toxicological characteristics:
Symptoms may include stinging, tearing, redness, swelling and blurred vision. Skin irritation. May cause redness and pain.

Carcinogenicity:
This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.

Reproductive Toxicity:
This product is not expected to cause reproductive or developmental effects.

Toxicological Information:
Meets GS-37 requirements for skin and eye irritation at the as-used dilution.

SECTION 13: ECOLOGICAL INFORMATION

Disposal Instructions
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazardous Waste Code
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste From Residue/Unused Products
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated Packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

SECTION 14: TRANSPORT INFORMATION

Non-Regulated

SECTION 15: REGULATORY INFORMATION

United States Federal Regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

US. EPA CERCLA Hazardous Substances (40 CFR 302)
Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

CERCLA (Superfund) reportable quantity
Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories: Immediate Hazard – Yes
Delayed Hazard – No
Fire Hazard – No
Pressure Hazard – No
Reactivity Hazard – No

SARA 302 Extremely hazardous substance – No
SARA 311/312 Hazardous chemical – No
SARA 313 (TRI reporting)
Not regulated.

Other Federal Regulations:

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.

Safe Drinking Water Act (SDWA)

US State Regulations:
Not regulated.

US. Massachusetts RTK - Substance List
Not regulated.

US. New Jersey Worker and Community Right-to-Know Act
Not regulated.

US. Pennsylvania RTK - Hazardous Substances
Not regulated.

US. Rhode Island RTK
Not regulated.

US. California Proposition 65
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

SECTION 16: OTHER INFORMATION

Issue Date: 03-15-2016
Version # 01

The method of hazard communication for Everest Systems, LLC is comprised of Product Labels and Safety Data Sheets.

Contact: Public Safety Department
Telephone: 832.922.2926
Version Date: 06/30/2016
SDS Version 1.1

This information is furnished without warranty, express or implied. This information is believed to be accurate to the best knowledge of American WeatherStar, LLC. The information in this SDS relates only to the specific material designated herein. American WeatherStar, LLC assumes no legal responsibility for use of or reliance upon the information in this SDS.

SDS Revision Date: 05/27/2015

SECTION 1: Identification

1.1. Product identifier

Product Identity	AWS High Solids Silicone 412
Alternate Names	AWS High Solids Silicone 412

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use	Not Applicable
Application Method	See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name	American WeatherStar, LLC. 3100 Lees Lane Mobile, AL 36693
Emergency	
24 hour Emergency Telephone No.	INFOTRAC— (800) 535-5053
Customer Service: American WeatherStar, LLC.	800-771-6643

SECTION 2: Hazard(s) Identification

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Viscous liquid
IMMEDIATE CONCERNS: Use as Directed – For Industrial Use Only.

POTENTIAL HEALTH EFFECTS

EYES: May cause eye irritation.
SKIN: May cause skin irritation.
SKIN ABSORPTION: None.
INGESTION: Harmful if swallowed.
INHALATION: N/A
CHRONIC: None.
CARCINOGENICITY: Contains crystalline silica.
MUTAGENICITY: None.

REPRODUCTIVE TOXITY REPRODUCTIVE EFFECTS: None. **TERATOGENIC EFFECTS:** None. **IRRITANCY:** None.

CLASSIFICATION:

Carcinogen: Category 1.
Eye irritation: Category 2.

PICTOGRAMS:

SIGNAL WORD: Warning

HAZARD STATEMENTS:
May cause cancer (crystalline silica is a known carcinogen if inhaled).
Causes eye irritation.
Harmful to aquatic life.

PRECAUTIONARY STATEMENTS:
Keep container tightly closed.
Keep away from heat/sparks/open flame. - No smoking.
Wear protective gloves and eye/face protection
Ground/Bond container and receiving equipment.
For Industrial and Institutional Use Only – For outside use only
Store in cool/well-ventilated place
Avoid release to the environment
Avoid activities (sanding, crushing) of finished product that can produce airborne fibers

SECTION 3: Composition/Information on Ingredients

Chemical name*	CAS #	Weight %
Crystalline Silica**	14808-60-7	30 - 35
Titanium Dioxide**	13463-67-7	5 - 10
Pigment Dispersions	mixture	0 - 1
Methyl Oximino Silane	22984-54-9	< 7

* The specific chemical identity and exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

** These materials are bound in liquid/paint and are not airborne or in dust form.

** "WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM."

SECTION 4: First Aid Measures

EYES: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention

SKIN: Wash the contaminated area with soap and water. Remove contaminated clothing and wash before reuse. If irritation develops, get medical attention.

INGESTION: If swallowed, DO NOT induce vomiting. Seek immediate medical attention.

INHALATION: Remove person to fresh air. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, give artificial respiration.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED SYMPTOMS: N/A
EFFECTS: N/A

NOTES TO PHYSICIAN: N/A

SECTION 5: Fire Fighting Meausres

SUITABLE EXTINGUISHING MEDIA: Foam, extinguishing powder, carbon dioxide, water fog. In case of fire, cool endangered containers with water fog.

FIRE FIGHTING PROCEDURES: As appropriate for surrounding materials/equipment. If electrical equipment is involved, the use of foam should be avoided. Use water spray to cool non-involved containers.

UNUSUAL FIRE AND EXPLOSION HAZARD: N/A

COMBUSTION PRODUCTS: By high heat or fire: Carbon monoxide, Carbon dioxide, Oxides of Nitrogen and Oxides of silicone and various hydrocarbon fragments.

SECTION 6: Accidental release measures

SMALL SPILL: Remove all sources of ignition. Ventilate area. Absorb spill with absorbent material such as sawdust, vermiculite or sand, and place in a closed container.

LARGE SPILL: In case of large spill, dike the area to prevent this material from entering water systems or sewers. For major spills call CHEMTREC® (800-424-9300).

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: For major spills call CHEMTREC® (800-424-9300).

LAND SPILL: For major spills call CHEMTREC® (800-424-9300).

PERSONAL PRECAUTIONS: Do not eat, drink or smoke while cleaning up. Ensure adequate ventilation.

PROTECTIVE EQUIPMENT: Wear protective clothing, safety glasses and impervious gloves (e.g., neoprene gloves).

EMERGENCY PRECAUTIONS: N/A

METHOD OF CLEANING UP: Absorb on liquid-absorbing material (treated sawdust, diatomaceous earth, sand). Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal

SECTION 7: Handling and Storage

PRECAUTIONS FOR SAFE HANDLING: Avoid contact with eyes. Avoid skin contact and breathing mists/vapors. Use in well-ventilated area away from all ignition sources. Switch off all electrical devices such as parabolic heaters, hotplates, storage heaters etc. in good time for them to have cooled down before commencing work. Do not smoke; do not weld. Do not empty waste into sanitary drains. Take measures to prevent the build up of electrostatic charge.

CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES: Storage

containers must be grounded and bonded. Store away from all ignition sources in a cool area equipped with an automatic sprinkling system. Ensure adequate ventilation. Store at temperatures between +5 and +50°C - Store only in the original container.

SECTION 8: Exposure controls and personal protection

OSHA TABLE COMMENTS:
Crystalline Silica - OSHA - Final PELs - Table Z-3 Mineral Dusts
Titanium dioxide - 15 mg/m3 TWA (total dust) U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)

EXPOSURE LIMITS: U.S. - OSHA - Final PELs - Table Z-3 Mineral Dusts Quartz (30)/(%SiO2 + 2) mg/m3 TWA, total dust; (250)/(%SiO2 + 5) mppcf TWA, respirable fraction; (10)/(%SiO2 + 2) mg/m3 TWA, respirable fraction. Titanium dioxide - 15 mg/m3 TWA (total dust)

ENGINEERING CONTROLS: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s). General ventilation is recommended. Additional local exhaust ventilation is recommended where vapors, mists, or aerosols may be released.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear protective eyeglasses or chemical safety goggles, per OSHA eye and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protection devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

SKIN: Wear chemical resistant gloves. Wear protective clothing to prevent skin contact. Keep exposed skin area to a minimum. Eye wash station and safety shower should be available.

RESPIRATORY: If exposure can exceed the PEL/TLV, use only NIOSH/MSHA approved air purifying or supplied air respirator operated in a positive pressure mode per the NIOSH/OSHA occupational health guidelines for chemical hazards. If it is possible to generate significant levels of vapors or mists, a NIOSH approved or equivalent respirator is recommended.

WORK HYGIENIC PRACTICES: Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing and wash thoroughly before reuse. Shower after work, using plenty of soap and water. Open containers of food and beverages should be kept away from areas where the product is used or stored. Eating, drinking, smoking and application of cosmetics should be prohibited in areas where the product is being used.

OTHER USE PRECAUTIONS: For Industrial Use Only – Use only as directed.

COMMENTS: Avoid sanding or other activities that may produce airborne fibers from finished product.

SECTION 9: Physical and chemical properties

PHYSICAL STATE: Viscous Liquid
COLOR: White, Lt Grey, Dark Grey, or Tan
ODOUR: Slight sweet odor
ODOUR THRESHOLD: N/A
pH: N/A
MELTING POINT: N/A
BOILING POINT: N/A
FLASH POINT AND METHOD: >200°F - (COC) ASTM D-92
EVAPORATION RATE: Slower than ether
FLAMMABILITY (Solid/Gas): N/A
FLAMMABLE LIMITS: N/A
VAPOUR PRESSURE: N/A
VAPOUR DENSITY: Heavier than air
SPECIFIC GRAVITY: Average1.26 to 1.30
% SOLUBILITY IN WATER: Negligible **OCTANOL/WATER PARTITION COEFFICIENT:** N/A **AUTO-IGNITION TEMPERATURE:** N/A **DECOMPOSITION TEMPERATURE:** N/A
POUR POINT: N/A
MOLECULAR FORMULA:
% VOLATILE: <50 Grams/Liter EPA Method 24
VISCOSITY: N/A
MOLECULAR WEIGHT: N/A

SECTION 10: Stability and reactivity

STABLE: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Keep away from heat, sparks, or flames.

STABILITY: Stable under normal conditions of use and storage

POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: By high heat or fire: Carbon Monoxide, Carbon dioxide, Oxides of silicone, and various hydrocarbon fragments.

INCOMPATIBLE MATERIALS: Avoid water, strong oxidizing agents, concentrated nitric and sulfuric acids, halogen, and molten sulfur.

POSSIBILITY OF HAZARDOUS REACTIONS: Does not occur.

SECTION 11: Toxicological information

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Dizziness and labored breathing.
ACUTE EFFECTS:

EYE: Exposure to liquid or vapor causes eye irritation. Symptoms may include stinging, tearing, and swelling.

SKIN: Exposure causes skin irritation. Prolonged or repeated exposure may dry the skin. Symptoms may include redness, burning, drying and cracking. Skin absorption is possible, but harmful effects are not expected from this route of exposure under normal conditions of handling and use.

INHALATION: Short-term inhalation toxicity is low. Breathing small amounts during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are more likely seen at air concentrations exceeding the recommended exposure limits. Symptoms of exposure may include: Irritation (nose, throat, and respiratory tract), metallic taste in mouth, impaired coordination, confusion, CNS depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, and unconsciousness).

INGESTION: Single dose or oral toxicity is low. Swallowing small amounts during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. Symptoms may include: Gastrointestinal irritation (nausea, vomiting, and diarrhea) and possible liver damage. This material can enter the lungs during swallowing or vomiting and cause lung inflammation and/or damage.

TARGET ORGAN: N/A

CHRONIC EFFECTS: Crystalline Silica: IARC - Group 1 (Carcinogenic to Humans) Silica, quartz Monograph 100C [2012] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources); Monograph 68 [1997]

Product evolves methyl ethyl ketoxime (MEKO) when exposed to water or humid air. In animal studies MEKO produced tumors in rats. Provide ventilation during use to control MEKO exposure or use respiratory protection.

ACUTE TOXICITY VALUES: N/A

SYMPTOMS OF RELATED

PHYSICAL: N/A

CHEMICAL: N/A

TOXICOLOGICAL CHARACTERISTICS: N/A

DELAYED AND IMMEDIATE EFFECTS: N/A

SECTION 12: Ecological information

ECOTOXICOLOGICAL INFORMATION: The total of the organic components contained in the product is not classified as "readily biodegradable" (OECD-301 A-F). However, this product is expected to be inherently biodegradable. There is no evidence to suggest bioaccumulation will occur.

PERSISTENCE AND DEGRADABILITY: N/A **BIO-**

ACCUMULATIVE POTENTIAL: N/A **MOBILITY**:

N/A

OTHER ADVERSE EFFECTS: N/A

SECTION 13: Disposal Considerations

WASTE TREATMENT METHODS

DISPOSAL METHOD: Avoid disposal by using the entire product as directed. If discarded in liquid form, this product may be treated as hazardous waste. Unused product may be

disposed of as solid waste once cured out and dry. Check with local authorities regarding landfill disposal.

EMPTY CONTAINER: Empty containers should be decontaminated and either passed to an approved drum recycler or crushed and land filled.

SECTION 14: Transport Information

DOT (DEPARTMENT OF TRANSPORTATION)
TECHNICAL NAME: Roof Coating, Not Regulated.

UN NUMBER: N/A

UN PROPER SHIPPING NAME: Not Regulated

TRANSPORT HAZARD CLASS: N/A

PACKING GROUP: N/A

MARINE POLLUTANT: N/A

SPECIAL PRECAUTIONS: N/A

SECTION 15: Regulatory Information

TSCA (Toxic Substances Control Act) Regulations: This material or its components are listed on the TSCA Chemical Substance Inventory and is in compliance with all applicable rules and orders. One or more of the components may be exempt from listing on the TSCA Inventory.

SARA: This material does not contain any substances in the list of Toxic Chemicals subject to Section 313 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III), in excess of the applicable de minimis concentrations as specified in Section 372.38 (a).

Massachusetts, New Jersey, Pennsylvania right to know Extraordinarily Hazardous Substance Lists:

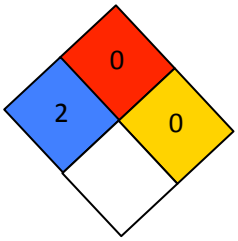
Reportable Component	CAS No		Weight % (+ 2%)
Crystalline Silica	14808-60-7	31	(as respirable dust only, not while in liquid form)
Methyl Oximo silane	22984-54-9		< 7

California Proposition 65: Warning: This product contains chemicals known to the state of California to be Carcinogenic.

Reportable Component	CAS No		Weight % (+ 2%)
Crystalline Silica	14808-60-7	31	(as respirable dust only, not while in liquid form)

SECTION 16: Other Information

HMIS RATING	
Health :	2
Flammability :	**0**
Reactivity :	0
Personal Protection :	B



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SDS Revision Date: 05/27/2015

SECTION 1: Identification

1.1. Product identifier

Product Identity	Brush-Grade Silicone 422
Alternate Names	Brush-Grade Silicone 422

1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use Not Applicable

Application Method See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name American WeatherStar, LLC.
3100 Lees Lane
Mobile, AL 36693

Emergency

24 hour Emergency Telephone No.	INFOTRAC— (800) 535-5053
Customer Service: American WeatherStar, LLC.	800-771-6643

SECTION 2: Hazard(s) Identification

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Viscous liquid
IMMEDIATE CONCERNS: Use as Directed – For Industrial Use Only.

POTENTIAL HEALTH EFFECTS

EYES: May cause eye irritation.
SKIN: May cause skin irritation.
SKIN ABSORPTION: None.
INGESTION: Harmful if swallowed.
INHALATION: N/A
CHRONIC: None.
CARCINOGENICITY: Contains crystalline silica.
MUTAGENICITY: None.

REPRODUCTIVE TOXITY REPRODUCTIVE EFFECTS: None. **TERATOGENIC EFFECTS:** None. **IRRITANCY:** None.

CLASSIFICATION:

Carcinogen: Category 1.
Eye irritation: Category 2.

PICTOGRAMS:

SIGNAL WORD: Warning

HAZARD STATEMENTS:
May cause cancer (crystalline silica is a known carcinogen if inhaled).
Causes eye irritation.
Harmful to aquatic life.

PRECAUTIONARY STATEMENTS:
Keep container tightly closed.
Keep away from heat/sparks/open flame. - No smoking.
Wear protective gloves and eye/face protection
Ground/Bond container and receiving equipment.
For Industrial and Institutional Use Only – For outside use only
Store in cool/well-ventilated place
Avoid release to the environment
Avoid activities (sanding, crushing) of finished product that can produce airborne fibers

SECTION 3: Composition/Information on Ingredients

Chemical name*	CAS #	Weight %
Crystalline Silica**	14808-60-7	30 - 35
Titanium Dioxide**	13463-67-7	5 - 10
Pigment Dispersions	mixture	0 - 1
Methyl Oximino Silane	22984-54-9	< 7

* The specific chemical identity and exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

** These materials are bound in liquid/paint and are not airborne or in dust form.

** "WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM."

SECTION 4: First Aid Measures

EYES: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention

SKIN: Wash the contaminated area with soap and water. Remove contaminated clothing and wash before reuse. If irritation develops, get medical attention.

INGESTION: If swallowed, DO NOT induce vomiting. Seek immediate medical attention.

INHALATION: Remove person to fresh air. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, give artificial respiration.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED SYMPTOMS: N/A
EFFECTS: N/A

NOTES TO PHYSICIAN: N/A

SECTION 5: Fire Fighting Meausres

SUITABLE EXTINGUISHING MEDIA: Foam, extinguishing powder, carbon dioxide, water fog. In case of fire, cool endangered containers with water fog.

FIRE FIGHTING PROCEDURES: As appropriate for surrounding materials/equipment. If electrical equipment is involved, the use of foam should be avoided. Use water spray to cool non-involved containers.

UNUSUAL FIRE AND EXPLOSION HAZARD: N/A

COMBUSTION PRODUCTS: By high heat or fire: Carbon monoxide, Carbon dioxide, Oxides of Nitrogen and Oxides of silicone and various hydrocarbon fragments.

SECTION 6: Accidental release measures

SMALL SPILL: Remove all sources of ignition. Ventilate area. Absorb spill with absorbent material such as sawdust, vermiculite or sand, and place in a closed container.

LARGE SPILL: In case of large spill, dike the area to prevent this material from entering water systems or sewers. For major spills call CHEMTREC® (800-424-9300).

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: For major spills call CHEMTREC® (800-424-9300).

LAND SPILL: For major spills call CHEMTREC® (800-424-9300).

PERSONAL PRECAUTIONS: Do not eat, drink or smoke while cleaning up. Ensure adequate ventilation.

PROTECTIVE EQUIPMENT: Wear protective clothing, safety glasses and impervious gloves (e.g., neoprene gloves).

EMERGENCY PRECAUTIONS: N/A

METHOD OF CLEANING UP: Absorb on liquid-absorbing material (treated sawdust, diatomaceous earth, sand). Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal

SECTION 7: Handling and Storage

PRECAUTIONS FOR SAFE HANDLING: Avoid contact with eyes. Avoid skin contact and breathing mists/vapors. Use in well-ventilated area away from all ignition sources. Switch off all electrical devices such as parabolic heaters, hotplates, storage heaters etc. in good time for them to have cooled down before commencing work. Do not smoke; do not weld. Do not empty waste into sanitary drains. Take measures to prevent the build up of electrostatic charge.

CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES: Storage

containers must be grounded and bonded. Store away from all ignition sources in a cool area equipped with an automatic sprinkling system. Ensure adequate ventilation. Store at temperatures between +5 and +50°C - Store only in the original container.

SECTION 8: Exposure controls and personal protection

OSHA TABLE COMMENTS:
Crystalline Silica - OSHA - Final PELs - Table Z-3 Mineral Dusts
Titanium dioxide - 15 mg/m3 TWA (total dust) U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)

EXPOSURE LIMITS: U.S. - OSHA - Final PELs - Table Z-3 Mineral Dusts Quartz (30)/(%SiO2 + 2) mg/m3 TWA, total dust; (250)/(%SiO2 + 5) mppcf TWA, respirable fraction; (10)/(%SiO2 + 2) mg/m3 TWA, respirable fraction. Titanium dioxide - 15 mg/m3 TWA (total dust)

ENGINEERING CONTROLS: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s). General ventilation is recommended. Additional local exhaust ventilation is recommended where vapors, mists, or aerosols may be released.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear protective eyeglasses or chemical safety goggles, per OSHA eye and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protection devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

SKIN: Wear chemical resistant gloves. Wear protective clothing to prevent skin contact. Keep exposed skin area to a minimum. Eye wash station and safety shower should be available.

RESPIRATORY: If exposure can exceed the PEL/TLV, use only NIOSH/MSHA approved air purifying or supplied air respirator operated in a positive pressure mode per the NIOSH/OSHA occupational health guidelines for chemical hazards. If it is possible to generate significant levels of vapors or mists, a NIOSH approved or equivalent respirator is recommended.

WORK HYGIENIC PRACTICES: Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing and wash thoroughly before reuse. Shower after work, using plenty of soap and water. Open containers of food and beverages should be kept away from areas where the product is used or stored. Eating, drinking, smoking and application of cosmetics should be prohibited in areas where the product is being used.

OTHER USE PRECAUTIONS: For Industrial Use Only – Use only as directed.

COMMENTS: Avoid sanding or other activities that may produce airborne fibers from finished product.

SECTION 9: Physical and chemical properties

PHYSICAL STATE: Viscous Liquid
COLOR: White, Lt Grey, Dark Grey, or Tan
ODOUR: Slight sweet odor
ODOUR THRESHOLD: N/A
pH: N/A
MELTING POINT: N/A
BOILING POINT: N/A
FLASH POINT AND METHOD: >200°F - (COC) ASTM D-92
EVAPORATION RATE: Slower than ether
FLAMMABILITY (Solid/Gas): N/A
FLAMMABLE LIMITS: N/A
VAPOUR PRESSURE: N/A
VAPOUR DENSITY: Heavier than air
SPECIFIC GRAVITY: Average1.26 to 1.30
% SOLUBILITY IN WATER: Negligible **OCTANOL/WATER PARTITION COEFFICIENT:** N/A **AUTO-IGNITION TEMPERATURE:** N/A **DECOMPOSITION TEMPERATURE:** N/A
POUR POINT: N/A
MOLECULAR FORMULA:
% VOLATILE: <50 Grams/Liter EPA Method 24
VISCOSITY: N/A
MOLECULAR WEIGHT: N/A

SECTION 10: Stability and reactivity

STABLE: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Keep away from heat, sparks, or flames.

STABILITY: Stable under normal conditions of use and storage

POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: By high heat or fire: Carbon Monoxide, Carbon dioxide, Oxides of silicone, and various hydrocarbon fragments.

INCOMPATIBLE MATERIALS: Avoid water, strong oxidizing agents, concentrated nitric and sulfuric acids, halogen, and molten sulfur.

POSSIBILITY OF HAZARDOUS REACTIONS: Does not occur.

SECTION 11: Toxicological information

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Dizziness and labored breathing.
ACUTE EFFECTS:

EYE: Exposure to liquid or vapor causes eye irritation. Symptoms may include stinging, tearing, and swelling.

SKIN: Exposure causes skin irritation. Prolonged or repeated exposure may dry the skin. Symptoms may include redness, burning, drying and cracking. Skin absorption is possible, but harmful effects are not expected from this route of exposure under normal conditions of handling and use.

INHALATION: Short-term inhalation toxicity is low. Breathing small amounts during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are more likely seen at air concentrations exceeding the recommended exposure limits. Symptoms of exposure may include: Irritation (nose, throat, and respiratory tract), metallic taste in mouth, impaired coordination, confusion, CNS depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, and unconsciousness).

INGESTION: Single dose or oral toxicity is low. Swallowing small amounts during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. Symptoms may include: Gastrointestinal irritation (nausea, vomiting, and diarrhea) and possible liver damage. This material can enter the lungs during swallowing or vomiting and cause lung inflammation and/or damage.

TARGET ORGAN: N/A

CHRONIC EFFECTS: Crystalline Silica: IARC - Group 1 (Carcinogenic to Humans) Silica, quartz Monograph 100C [2012] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources); Monograph 68 [1997]

Product evolves methyl ethyl ketoxime (MEKO) when exposed to water or humid air. In animal studies MEKO produced tumors in rats. Provide ventilation during use to control MEKO exposure or use respiratory protection.

ACUTE TOXICITY VALUES: N/A

SYMPTOMS OF RELATED

PHYSICAL: N/A

CHEMICAL: N/A

TOXICOLOGICAL CHARACTERISTICS: N/A

DELAYED AND IMMEDIATE EFFECTS: N/A

SECTION 12: Ecological information

ECOTOXICOLOGICAL INFORMATION: The total of the organic components contained in the product is not classified as "readily biodegradable" (OECD-301 A-F). However, this product is expected to be inherently biodegradable. There is no evidence to suggest bioaccumulation will occur.

PERSISTENCE AND DEGRADABILITY: N/A **BIO-**

ACCUMULATIVE POTENTIAL: N/A **MOBILITY**:

N/A

OTHER ADVERSE EFFECTS: N/A

SECTION 13: Disposal Considerations

WASTE TREATMENT METHODS

DISPOSAL METHOD: Avoid disposal by using the entire product as directed. If discarded in liquid form, this product may be treated as hazardous waste. Unused product may be

disposed of as solid waste once cured out and dry. Check with local authorities regarding landfill disposal.

EMPTY CONTAINER: Empty containers should be decontaminated and either passed to an approved drum recycler or crushed and land filled.

SECTION 14: Transport Information

DOT (DEPARTMENT OF TRANSPORTATION)
TECHNICAL NAME: Roof Coating, Not Regulated.

UN NUMBER: N/A

UN PROPER SHIPPING NAME: Not Regulated

TRANSPORT HAZARD CLASS: N/A

PACKING GROUP: N/A

MARINE POLLUTANT: N/A

SPECIAL PRECAUTIONS: N/A

SECTION 15: Regulatory Information

TSCA (Toxic Substances Control Act) Regulations: This material or its components are listed on the TSCA Chemical Substance Inventory and is in compliance with all applicable rules and orders. One or more of the components may be exempt from listing on the TSCA Inventory.

SARA: This material does not contain any substances in the list of Toxic Chemicals subject to Section 313 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III), in excess of the applicable de minimis concentrations as specified in Section 372.38 (a).

Massachusetts, New Jersey, Pennsylvania right to know Extraordinarily Hazardous Substance Lists:

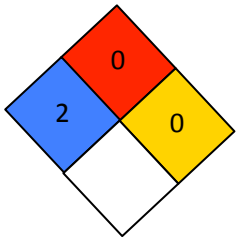
Reportable Component	CAS No		Weight % (+ 2%)
Crystalline Silica	14808-60-7	31	(as respirable dust only, not while in liquid form)
Methyl Oximo silane	22984-54-9		< 7

California Proposition 65: Warning: This product contains chemicals known to the state of California to be Carcinogenic.

Reportable Component	CAS No		Weight % (+ 2%)
Crystalline Silica	14808-60-7	31	(as respirable dust only, not while in liquid form)

SECTION 16: Other Information

HMIS RATING	
Health :	2
Flammability :	**0**
Reactivity :	0
Personal Protection :	B



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Safety Data Sheet
AWS Terminator 622

SDS Revision Date: 05/28/2015

SECTION 1: Identification

1.1. Product identifier

Product Identity	AWS Terminator 622
Alternate Names	AWS Terminator 622

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use	Coatings product
Application Method	See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name	American WeatherStar, LLC. 3100 Lees Lane Mobile, AL 36693
Emergency	
24 hour Emergency Telephone No.	INFOTRAC— (800) 535-5053
Customer Service: American WeatherStar, LLC.	800-771-6643

SECTION 2: Hazard(s) Identification

GHS Classification

Eye irritation:	Category 2A
Skin sensitization:	Category 1
Reproductive Toxicity:	Category 1B

GHS Label Elements

Hazard pictograms:

Signal word: Danger

Hazard statements:
May cause an allergic skin reaction.
Causes serious eye irritation.
May damage fertility or the unborn child.

Precautionary statements:

General:
Keep out of reach of children.
Before use, read, understand and comply with complete SDS.

Prevention:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood
Avoid breathing mist, vapors or spray.
Wash skin and face thoroughly before and after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves and clothing. Wear eye and face protection.

Response:
IF exposed or concerned: Get medical attention.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention

St**orage:**
Store locked up.
Disposal:
Dispose of contents and container in accordance with existing federal, state, and local environmental control laws.

Unknown Acute Toxicity: No data available

SECTION 3: Composition/Information on Ingredients

More than one of the ranges of concentration prescribed by Controlled Products Regulations has been used where necessary due to varying composition.

Ingredient	Product Identifier (CAS#)	% (w/w)
Polymer	Trade Secret*	15 – 40
Plasticizer	25322-69-4	10 – 30
Calcium Carbonate	471-34-1	5– 20
Limestone	1317-65-3	30 – 60
Light Stabilizer	52829-07-9	<1
Light Stabilizer	25973-55-1	<1
Stabilizer	36443-68-2	<1
Rheology Modifier	907-495-0	0.3 – 5
Drying Agent	2768-02-7	0.5 – 3
Adhesion Promoter	Trade Secret*	0.5 – 3
Catalyst	22673-19-4	<1
Carbon Black	1333-86-4	<1
TiO2	13463-67-7	<1
Stearic acid	57-11-4	<1
Quartz	14808-60-7	<1

The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret.

SECTION 4: First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible). Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

Skin Contact: Rinse immediately with plenty of water. Remove contaminated clothing. Wash contaminated clothing before reuse. Obtain medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

Ingestion: Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

Most Important Symptoms and Effects Both Acute and Delayed

General: May cause an allergic skin reaction.
Inhalation: May cause respiratory irritation.
Skin Contact: May cause an allergic skin reaction.
Eye Contact: Redness, pain, swelling, itching, burning, tearing, and blurred vision.
Ingestion: Ingestion is likely to be harmful or have adverse effects.
Chronic Symptoms: May damage fertility or the unborn child.

Indication of Any Immediate Medical Attention and Special Treatment Needed
If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: Fire Fighting Measures

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture
Fire Hazard: Not considered flammable but may burn at high temperatures.
Explosion Hazard: Product is not explosive.
Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters
Precautionary Measures Fire: Exercise caution when fighting any chemical fire. **Firefighting Instructions:** Use water spray or fog for cooling exposed containers.
Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory **protection. Hazardous Combustion Products:** Carbon oxides (CO, CO2), hydrocarbons, fumes, smoke, aldehydes, ketones, silica, formaldehyde, and nitrogen products.

SECTION 6: Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures
General Measures: Avoid all contact with skin, eyes, or clothing.

For Non-Emergency Personnel
Protective Equipment: Use appropriate personal protection equipment (PPE).
Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel
Protective Equipment: Equip cleanup crew with proper protection.
Emergency Procedures: Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

Environmental Precautions
Prevent entry to sewers and public waters. Notify authorities if paste enters sewers or public waters.

Methods and Material for Containment and Cleaning Up
For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact appropriate authorities after a spill.

6.4. Reference to Other Sections

See section 8. Exposure controls and personal protection.

SECTION 7: Handling and Storage

Precautions for Safe Handling

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities Technical Measures:
Comply with all applicable regulations.

Storage Conditions: Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.
Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.

SECTION 8: Exposure controls and personal protection

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Ingredient	Location	Agency	Limit type
Calcium Oxide (1305-78-8)	Mexico	OEL TWA (mg/m³)	2 mg/m³
	USA ACGIH	ACGIH TWA (mg/m³)	2 mg/m³
	USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³
	USA NIOSH	NIOSH REL (TWA) (mg/m³)	2 mg/m³
	USA IDLH	US IDLH (mg/m³)	25 mg/m³
Carbon black (1333-86-4)	Mexico	OEL TWA (mg/m³)	3.5 mg/m³
	Mexico	OEL STEL (mg/m³)	7 mg/m³
	USA ACGIH	ACGIH TWA (mg/m³)	3 mg/m³ (inhalable fraction)
	USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
	USA OSHA	OSHA PEL (TWA) (mg/m³)	3.5 mg/m³
	USA NIOSH	NIOSH REL (TWA) (mg/m³)	3.5 mg/m³ 0.1 mg/m³ (Carbon black in presence of Polycyclic aromatic hydrocarbons)
	USA IDLH	US IDLH (mg/m³)	1750 mg/m³
Calcium Carbonate (471-34-1)	USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust) 5 mg/m³ (respirable dust)
Limestone (1317-65-3)	Mexico	OEL TWA (mg/m³)	10 mg/m³
	Mexico	OEL STEL (mg/m³)	20 mg/m³
	USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust)
			5 mg/m³ (respirable dust)
	USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust)
			5 mg/m³ (respirable dust)

Quartz (14808-60-7)	Mexico	OEL TWA (mg/m³)	0.1 mg/m³ (respirable fraction)
	USA ACGIH	ACGIH TWA (mg/m³)	0.025 mg/m³ (respirable fraction)
	USA ACGIH	ACGIH chemical category	A2 - Suspected Human Carcinogen
	USA OSHA	OSHA PEL (STEL) (mg/m³)	250 mppcf/%SiO +5, 10mg/m3/%SiO +2
	USA NIOSH	NIOSH REL (TWA) (mg/m³)	0.05 mg/m³ (respirable dust)
	USA IDLH	US IDLH (mg/m³)	50 mg/m³ (respirable dust)
Light Stabilizer		Internal TWA (mg/m3)	2 mg/m³ Bemis RM
(25973-55-1)			
Titanium dioxide	Mexico	OEL TWA (mg/m³)	10 mg/m³
(13463-67-7)			
	Mexico	OEL STEL (mg/m³)	20 mg/m³
	USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³
	USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
	USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust)
	USA IDLH	US IDLH (mg/m³)	5000 mg/m³

Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas. Emergency eye wash systems should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.
Personal Protective Equipment: Protective goggles. Gloves.
Materials for Protective Clothing: Chemically resistant materials and fabrics.
Hand Protection: Wear chemically resistant protective gloves.
Eye Protection: Chemical goggles or safety glasses.
Skin and Body Protection: Wear suitable protective clothing.
Respiratory Protection: Not required under normal conditions of use.
Environmental Exposure Controls: Do not allow the product to be released into the environment.
Consumer Exposure Controls: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

Physical State	Solid Paste
Appearance	Various Colors
Odor	Nil
Odor Threshold	No Data Available
pH	No Data Available
Evaporation Rate	No Data Available
Melting Point	No Data Available
Freezing Point	No Data Available
Boiling Point	No Data Available
Flash Point	No Data Available
Auto-ignition Temperature	No Data Available
Decomposition Temperature	No Data Available
Flammability (solid, gas)	No Data Available
Lower Flammable Limit	No Data Available
Upper Flammable Limit	No Data Available
Vapor Pressure	No Data Available

Relative Vapor Density at 20 °C	No Data Available
Relative Density	No Data Available
Specific Gravity	No Data Available
Solubility	No Data Available
Partition Coefficient: N-Octanol/Water	No Data Available
Viscosity	No Data Available

NOTE: The physical data presented above are typical values and should not be construed as a specification.

SECTION 10: Stability and reactivity

Reactivity: Hazardous reactions will not occur under normal conditions.
Chemical Stability: Stable under recommended handling and storage conditions (see section 7).
Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials.
Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.
Hazardous Decomposition Products: None known.

SECTION 11: Toxicological information

This information below may not be consistent with the material classification in Section 2. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, or the data may not be relevant to the material as a whole.

Finely divided Quartz has caused cancer and lung disease in workers that inhale it over an extended period of time. Additionally, there have been studies performed in animals that suggest Carbon Black and Titanium Dioxide may cause lung cancer through inhalation. Studies suggest, however, that these hazards are not associated with other routes of exposure. Since this product is in a liquid/paste form, none of these components are able to become airborne and cannot be inhaled. Thus, the hazards usually associated with Quartz, Carbon Black, or Titanium Dioxide are not applicable to this product.

Information on Toxicological Effects: EVERSEAL
Acute Toxicity: Not classified
LD50 and LC50 Data: Not available
Skin Corrosion/Irritation: Not classified
Serious Eye Damage/Irritation: Not classified
Respiratory or Skin Sensitization: May cause an allergic skin reaction.
Teratogenicity: Not available
Specific Target Organ Toxicity (Repeated Exposure): Not classified
Reproductive Toxicity: May damage fertility or the unborn child.
Specific Target Organ Toxicity (Single Exposure): Not classified
Aspiration Hazard: Not classified
Symptoms/Injuries After Inhalation: May cause respiratory irritation.
Symptoms/Injuries After Skin Contact: May cause an allergic skin reaction.
Symptoms/Injuries After Eye Contact: Redness, pain, swelling, itching, burning, tearing, and blurred vision. **Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: May damage fertility or the unborn child.

Information on Toxicological Effects – Materials that may be ingredients identified in Section 3.
LD50 and LC50 Data:

Decanedioic acid, bis(2,2,6,6-tetramethyl-4-piperidinyl)
ester (52829-07-9)
LC50 Inhalation Rat 500 mg/m³ (Exposure time: 4 h)
Tinuvin 328 (Benzotriazole UV absorber) (25973-55-1)

LD50 Oral Rat > 2325 mg/kg
Carbon black (1333-86-4)

LD50 Oral Rat > 8000 mg/kg

IARC Group 2B
OSHA Hazard Communication Carcinogen List
Adhesion Promoter (Trade Secret)
LD50 Oral Rat 74.60 uL/kg

Silane, ethenyltrimethoxy- (2768-02-7)
LC50 Inhalation Rat 16.8 mg/l/4h
Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-
(22673-19-4)
LD50 Oral Rat 1864 mg/kg
Titanium dioxide (13463-67-7)
LD50 Oral Rat > 10000 mg/kg
IARC Group 2B
OSHA Hazard Communication Carcinogen List
Calcium Carbonate (471-34-1)
LD50 Oral Rat 6450 mg/kg

Quartz (14808-60-7)
LD50 Oral Rat > 5000 mg/kg
LD50 Dermal Rat > 5000 mg/kg

IARC Group 1

National Toxicology Program (NTP) Status Known Human Carcinogens.
OSHA Hazard Communication Carcinogen List
Petroleum distillates, hydrotreated light (64742-47-8)
LD50 Oral Rat > 5000 mg/kg
LD50 Dermal Rabbit > 2000 mg/kg
LC50 Inhalation Rat > 5.2 mg/l/4h
1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl
esters, C9-rich (68515-48-0)

LD50 Oral Rat 2550 mg/kg
LD50 Dermal Rabbit > 3160 mg/kg
Calcium oxide (1305-78-8)
LD50 Oral Rat > 2000 mg/kg
LD50 Dermal Rabbit > 2500 mg/kg
Dibutyltin oxide (818-08-6)
LD50 Oral Rat 44.9 mg/kg

SECTION 12: Ecological information

Ecotoxicological information
Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information of this material and/or its components.

Chemical fate information
Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: Disposal Considerations

Waste treatment methods

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Facility must be capable of handling halogenated materials. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substance/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable wasted regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

Ecology – Waste Materials: Avoid release to the environment.

SECTION 14: Transport Information

In Accordance with DOT	Not regulated for transport
In Accordance with IMDG	Not regulated for transport
In Accordance with IATA	Not regulated for transport
In Accordance with TDG	Not regulated for transport

SECTION 15: Regulatory Information

United States Federal Regulations
SARA Section 311/312 Hazard Classes: Immediate (acute) health hazard Delayed (chronic) health hazard SARA Section 313 - Emission Reporting: 0.1 %

U.S. - California - Proposition 65 - Carcinogens List
WARNING: This product may contain one or all of the following chemicals known to the State of California to cause cancer or reproductive toxicity. Reference Section 3 for specific product composition.
Carbon black (1333-86-4)
Titanium dioxide (13463-67-7)
Quartz (14808-60-7)
DINP (68515-48-0)

Carbon black (1333-86-4)/ Titanium dioxide (13463-67-7)/ Limestone (1317-65-3)/ Quartz (14808-60-7)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances (Only Carbon black (1333-86-4)) U.S. - Pennsylvania - RTK (Right to Know) List

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

SECTION 16: Other information

The method of hazard communication for American WeatherStar is comprised of Product Labels and Safety Data Sheets.

Safety Data Sheet
AWS Terminator 622

SDS Revision Date: 05/28/2015

Contact:	INFOTRAC
Telephone:	(800) 535-5053
Version Date:	05/28/2015
SDS Version:	1.1

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