

DATE: 9/12/2023

INVITATION TO BID
THIS IS NOT AN ORDER

Page: 5

BID NO.: 50-00143444

JEFFERSON PARISH

PURCHASING DEPARTMENT
P.O. BOX 9
GRETN, LA. 70054-0009
504-364-2678

VENDOR: 27118 BLANK BID COPY VENDOR

PURCHASING SPECIALIST:
BBELLOW

As per LSA-RS 47:301 et seq., all governmental bodies are excluded from payment of sales taxes to any Louisiana taxing body. Quotations shall be based on F.O.B. Agency warehouse or jobsite, anywhere within the Parish as designated by the Purchasing Department.

JEFFERSON PARISH reserves the right to cancel all or any part of an order if not shipped promptly. No charges will be allowed for parking or cartage unless specified in quotation. The order must not be filled at a higher price than quoted. JEFFERSON PARISH reserves the right to cancel at any time and for any reason by issuing a THIRTY (30) day written notice to the contractor.

JEFFERSON PARISH is expecting all products to be new and all work to be done in workman-like manner, according to standard practices. Any deviations or alteration from the specifications must be indicated on the bid form for each item and upon request, product data for same must be submitted by the time specified by the Purchasing Department.

DELIVERY: FOB JEFFERSON PARISH

INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES

10 days

INDICATE STARTING TIME (IN DAYS) FOR CONSTRUCTION WORK

10 days

INDICATE COMPLETION TIME (IN DAYS) FOR CONSTRUCTION WORK

60 days

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: _____

NUMBER: _____

NUMBER: _____

NUMBER: _____

LOUISIANA CONTRACTOR'S LICENSE NO.: (if applicable) 18364

*** ALL BIDDERS MUST COMPLETE SECTION BELOW ***

FIRM NAME: Advance Waterproofing Co., Inc. owner/President	
SIGNATURE: (Must be signed here)	TITLE: pres
PRINT OR TYPE NAME: Greg Kempton	
ADDRESS: P.O. Box 1188	
CITY, STATE: Gretna, LA	ZIP: 70054
TELEPHONE: 504, 362-1843	FAX: ()
EMAIL ADDRESS: advancewaterproofingco@gmail.com	

TOTAL PRICE OF ALL BID ITEMS: \$ 85,300 + \$10.00 per square on auxiliary work

DATE: 9/12/2023

Page: 6

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00143444

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
			<p>FURNISH LABOR, MATERIALS AND EQUIPMENT TO PROVIDE AND INSTALL ROOF COATING SYSTEM FOR JEFFERSON PARISH GENERAL SERVICES</p> <p>ROOF COATING INSTALLATION METAIRIE SENIOR CENTER</p> <p>DEPARTMENT OF GENERAL SERVICES</p> <p>PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, CRANE WORK, AND INCIDENTALS NECESSARY TO INSTALL A PURE ELASTOMERIC SILICONE ROOF COATING SYSTEM OVER THE EXISTING ROOFS AT THE METAIRIE SENIOR CENTER LOCATED AT 265 N. CAUSEWAY BLVD, METAIRIE, LA 70001</p> <p>ALL PREPERATION AND INSTALLATION SHALL FOLLOW MANUFACTURER GUIDELINES AND INSTRUCTIONS. SEE ATTACHMENT "A" FOR THE BUILDING LOCATIONS AND AREAS OF THE ROOF TO BE COATED.</p>		
1	1.00	JOB	<p>0010 - BASE BID: PROVIDE A COST FOR ALL WORK DESCRIBED IN THE ATTACHED SPECIFICATIONS TO THE LOWER ROOF AS IDENTIFIED IN ATTACHMENT "A", EXCLUDING SECTIONS NINE (9) AND TEN (10) FOR ANCILLARY WORK.</p>	\$ 35,800	\$ 35,800
2	1.00	JOB	<p>0020 - ALTERNATE 1: PROVIDE A COST FOR ALL WORK DESCRIBED IN THE ATTACHED SPECIFICATIONS TO THE UPPER ROOF AS IDENTIFIED IN ATTACHMENT "A", EXCLUDING SECTIONS NINE (9) AND TEN (10) FOR ANCILLARY WORK.</p>	\$ 49,500	\$ 49,500
3	1.00	SQFT	<p>0030 - ANCILLARY WORK PROVIDE A COST PER SQUARE FOOT TO REMOVE, REPAIR, AND REPLACE WATER-DAMAGED ROOFING MATERIALS DESCRIBED IN SECTION 10.0 OF THESE 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.</p> <p>***AS PER BID SPECIFICATIONS**</p>	\$ 10.00	\$ 10.00



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

09/15/2023

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

Terrebonne Insurance Agency, Inc.
210 Mystic Blvd

Houma

INSURED

Advance Waterproofing, Inc.
P.O. Box 1188

Gretna

LA 70360

LA 70054

CONTACT NAME: Customer Service

PHONE (A/C, No, Ext): (985) 851-3080

E-MAIL ADDRESS: service@terrebonneinsurance.com

FAX (A/C, No): (985) 851-0304

INSURER(S) AFFORDING COVERAGE

INSURER A: Kinsale Insurance Company

NAIC #

INSURER B: LWCC

INSURER C:

INSURER D:

INSURER E:

INSURER F:

COVERAGES

CERTIFICATE NUMBER: CL2322845597

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	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY			01000817253	02/28/2023	02/28/2024	EACH OCCURRENCE \$ 1,000,000
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						MED EXP (Any one person) \$ Excluded
	<input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC						PERSONAL & ADV INJURY \$ 1,000,000
	OTHER:						GENERAL AGGREGATE \$ 2,000,000
	AUTOMOBILE LIABILITY						PRODUCTS - COMP/OP AGG \$ 2,000,000
	<input type="checkbox"/> ANY AUTO						\$
	<input type="checkbox"/> OWNED AUTOS ONLY						COMBINED SINGLE LIMIT (Ea accident) \$
	<input type="checkbox"/> HIRED AUTOS ONLY						BODILY INJURY (Per person) \$
	<input type="checkbox"/> SCHEDULED AUTOS NON-OWNED AUTOS ONLY						BODILY INJURY (Per accident) \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB			0100081728-3	02/28/2023	02/28/2024	PROPERTY DAMAGE (Per accident) \$
	<input checked="" type="checkbox"/> EXCESS LIAB						\$
	DED RETENTION \$						EACH OCCURRENCE \$ 2,000,000
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			155108	03/01/2023	03/01/2024	AGGREGATE \$ 2,000,000
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	Y/N	N/A				\$
	If yes, describe under DESCRIPTION OF OPERATIONS below						PER STATUTE OTH-ER
							E.L. EACH ACCIDENT \$ 1,000,000
							E.L. DISEASE - EA EMPLOYEE \$ 1,000,000
							E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Bid #50-00143444

CERTIFICATE HOLDER

Jefferson Parish - Metairie Senior Center
265 N. Causeway Blvd.

Metairie

LA 70001

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: _____

LOC #: _____



ADDITIONAL REMARKS SCHEDULE

Page _____ of _____

AGENCY Terrebonne Insurance Agency, Inc.		NAMED INSURED Advance Waterproofing, Inc.	
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: Notes

GENERAL LIABILITY POLICY INCLUDES, BUT NOT LIMITED TO:

- Blanket Additional Insured as required by written contract
- Blanket Waiver of Subrogation as required by written contract
- Primary and Non-Contributory as required by written contract
- Per Project Aggregate as required by written contract

EXCESS LIABILITY POLICY INCLUDES, BUT NOT LIMITED TO:

- Excess over the underlying General Liability policy

WORKERS COMPENSATION POLICY INCLUDES, BUT NOT LIMITED TO:

- Blanket Waiver of Subrogation as required by written contract




CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

09/15/2023

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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  Cliff Robicheaux 1750 Stumpf Blvd Gretna LA 700563923	CONTACT NAME: Cliff Robicheaux PHONE (A/C, No, Ext): 504-263-1959 E-MAIL ADDRESS: cliff.robicheaux.jfrk@statefarm.com FAX (A/C, No): INSURER(S) AFFORDING COVERAGE INSURER A: State Farm Mutual Automobile Insurance Company INSURER B: INSURER C: INSURER D: INSURER E: INSURER F: NAIC # 25178
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COVERAGES	CERTIFICATE NUMBER:	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	ADD INSD	SUB WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ \$
A	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input checked="" type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY	N	N	199 3727-D30-181	04/30/2023	10/30/2023	COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ 1,000,000 BODILY INJURY (Per accident) \$ 1,000,000 PROPERTY DAMAGE (Per accident) \$ 1,000,000 \$
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input type="checkbox"/> RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? <input type="checkbox"/> Y/N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N/A					PER STATUTE <input type="checkbox"/> OTH-ER <input type="checkbox"/> \$ E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$

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

Bid #50-00143444

CERTIFICATE HOLDER**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



This form was system-generated on 09/15/2023

Jefferson Parish - Metairie Senior Center
265 N. Causeway Blvd

Metairie

LA 70001

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09-18-2023

Bid Bond in Accordance with Contract Specifications

SLA09182628

Advance Waterproofing Co., Inc.

Bond Number**Principal Name**

PO Box 1188, Gretna, LA, 70054, US

Principal Address
Principal Signature

Jefferson Parish

200 Derbigny Street, Gretna, LA, 70053, US

Owner/Obligee Name**Owner/Obligee Address****Bond Information**

09-19-2023

Merchants National Bonding, Inc.

22269

Bid Date**Surety****Contractor Vendor ID Number**

50-00143444

Contract ID Number

Furnish Labor, Materials and Equipment to Provide and Install Roof Coating System for Jefferson Parish General Services

Description of Job

Five Percent of Total Amount Bid

5%

Amount of Bid Security**Bid Security Maximum****Bid Security Percentage**

Mary C Turner

Attorney-in-Fact

Surety Bond Brokers of LA Inc.

Bond Entered and Executed By**Primary Agency****Attorney-In-Fact Signature**

Know all men by these presents that Merchants National Bonding, Inc., a Corporation duly organized under the laws of the State of IA, 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.



Non-Public Works Bid

AFFIDAVIT

STATE OF LOUISIANA

PARISH/COUNTY OF JEFFERSON

BEFORE ME, the undersigned authority, personally came and appeared: _____

GREG KEMATON (Affiant) who after being by me duly sworn, deposed and said that
he/she is the fully authorized President of ADVANCE WATERPROOFING (Entity),
the party who submitted a bid in response to Bid Number 50-00143444 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 or 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.

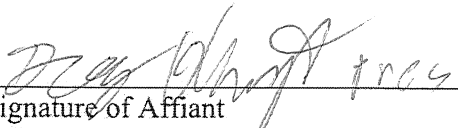
Choice B X There are **NO** debts which would require disclosure under Choice A of this section.

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

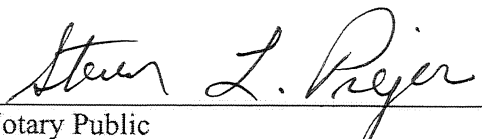
[The remainder of this page is intentionally left blank.]

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

Greg Kempton
Printed Name of Affiant

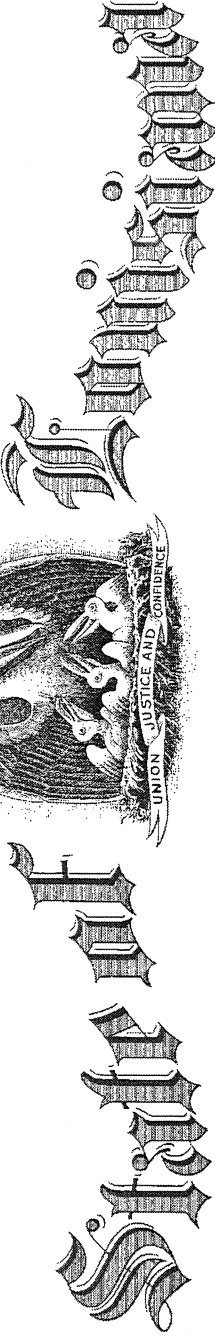
SWORN AND SUBSCRIBED TO BEFORE ME
ON THE 18th DAY OF SEPTEMBER, 2023.


Notary Public

STEVEN L. ARJEAN
Printed Name of Notary

22849
Notary Bar Roll Number

My commission expires upon death.



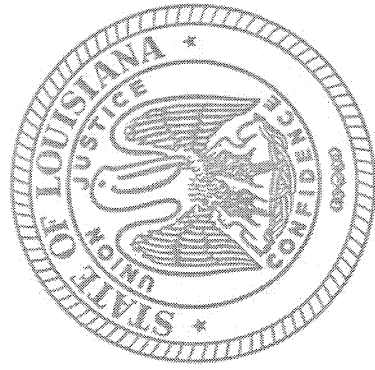
State Licensing Board for Contractors

This is to Certify that:

ADVANCE WATERPROOFING CO., INC.
P. O. Box 1188
Gretna, LA 70054

is duly licensed and entitled to practice the following classifications

BUILDING CONSTRUCTION; SPECIALTY: ROOFING AND SHEET METAL, SIDING; SPECIALTY:
WATERPROOFING, COATING, SEALING, CONCRETE/MASONRY REPAIR



Expiration Date: April 10, 2024

License No: 18364

Witness our hand and seal of the Board dated,
Baton Rouge, LA 11th day of April 2023

Will S. McCP

Director

Lee Mallett

Chairman

Andy Dumas

Treasurer

This License Is Not Transferrable

KST ROOFING SOLUTIONS

BOND-IT
38-620

PRODUCT DESCRIPTION

KST Roofing Solutions™ Bond-It is a clear, low viscosity, water-based rinseable wash.

GENERAL USES

Designed to act as a wash/rinse for EPDM membranes by breaking the chemical bond of the inorganics on the surface of the EPDM membrane preparing the surface for an elastomeric finish coat.

May also be used as a wash/rinse for single-ply membranes such as PVC and TPO.

PACKAGING INFORMATION

SKU	SIZE
KST038620-20	5 gallon pail

APPLICATION

Application

- Using a 2-3 gallon agricultural-type tank pressure sprayer. Adjust the nozzle to achieve a uniform spray pattern with a 3-4 foot arc.
- Conventional airless spray equipment using a .015".017" tip may also be used.
- Hydraulic pump with minimum pressure of 2,000 psi, keeping the tip within 12" of the surface
- Allow the Wash Primer to stand 10-15 minutes to wet out and react with the EPDM surface.
- Rinse Bond It Rinse Primer off of the roof surface

A squeegee is recommended to push excess water to the drains and accelerate drying. After cleaning, the roof should be "jet black" in color, indicating proper chemical reaction has occurred. If appearance is dull and weathered, reapply the Wash Primer. Allow surfaces to dry before coating application.

WARRANTY

This product is manufactured in accordance with ISO 9001-2008 standards. Seller and manufacturer's only obligation shall be to replace such quantity of product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential arising from the use or the inability to use the product for his/her intended use, and user assumes all risk and liability. Color fade is not covered under warranty.

PRODUCT CHARACTERISTICS

Color	Clear
pH	13-13.5
Set Time to Rinse	10-15 min
VOC	< 50 g/L
Specific Gravity	1.01
Clean Up	Mineral Spirits

MINIMUM APPLICATION RATE PER SUBSTRATE

Single-Ply, Aged : EPDM, TPO, PVC **1 gallon per 400-500 sq ft**

APPLICATION CONDITIONS

Do not apply below 50°F (10°C) or when rain is forecast. Applications during periods of low temperature or high humidity (Maximum humidity level: 85%) will extend dry time.

KEEP FROM FREEZING. Refer to product application bulletin for detailed application information.

Surface must be power washed to remove dirt, loose paint and rust, excessive chalk, and other foreign materials prior to application of Bond-it Rinse Primer. Surface must be completely dry prior to application.

IMPORTANT: Where ponding water conditions persist beyond 48 hours, roof drains or other corrective measures must be installed to eliminate water build-up prior to coating the roof.

DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of KST Coatings- A Business Unit of the Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of the publication. Consult your Uniflex Technical Representative to obtain the most recent Product Data Information.

If further information is needed, contact KST Roofing Solutions Technical Service at 1-888-321-3539

SECTION 07500

UNIFLEX SILICONE ROOF COATING SYSTEM GUIDE SPECIFICATION FOR SINGLE PLY RESTORATION AGED EPDM/TPO/PVC

PART 1 – GENERAL

1.1 DESCRIPTION

- A. Scope of work shall include all materials, labor, equipment, and supervision necessary to install a silicone roof coating system as outlined in this Specification. All work shall be performed by properly trained Contractor personnel in a safe, professional, timely and workmanlike manner and in accordance with all federal, state and local laws, rules and regulations, this Specification and good roofing practice.
- B. Restoration of existing Single Ply membranes using high solids, silicone roof coating. This Specification is suitable to protect, restore and extend the service life of previously coated and non-coated single-ply roof systems
- C. Any instructions on the Manufacturer's Product Data Sheets are to be considered part of these Specifications and should be followed in any performance of the work.
- D. Additional details and specific areas of repair may be selected, modified or added as necessary.

1.2 RELATED WORK

- A. Drawings and general provisions of the contract, including General and Supplementary Conditions and other Division 01 Specifications, apply to this section.
- B. Contractor shall review all sections of the project specifications to determine items of work that may interface with the application of the roof coating system. Compliance with applicable building codes shall be assured by the specifier or engineer, while coordination and execution of related sections shall be the responsibility of the Contractor.

1.3 REFERENCES

- A. Meets/Exceeds ASTM D 6694

1.4 REVIEW / SUBMITTALS

- A. Prior to bid, all project specifications, details, submittals, photographs, inspection reports and existing substrate conditions shall be provided to Manufacturer for review and pre-application warranty approval.
- B. At the time of bidding, the Contractor shall submit to the Owner the following:
 - 1. A certificate or letter from the Manufacturer approving the Contractor in good standing for application of the Manufacturer's products and systems at the time of the work.
 - 2. Provide cured sample of products to be installed.
 - 3. The Manufacturer's standard details and approved shop drawings for the coating system.
 - 4. Product and Material Safety Data Sheets for each product indicated in this Specification.
 - 5. Sample copy of Manufacturer's warranty to be issued upon successful completion of the project.
 - 6. Sample copy of the Contractor's warranty.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer shall have a minimum of 20 years' experience manufacturing roof coatings and be ISO 9001:2008 Certified.
- B. Products listed herein shall be provided by a single manufacturer or approved by the primary roofing Manufacturer for compatibility.

- C. Contractor represents and warrants that it is experienced in and qualified to perform the work described herein and can provide the necessary equipment, supervision, and trained workforce capable of completing the work in a safe, prompt, diligent, professional, and workmanlike manner and in accordance with all federal, state and local laws, rules and regulations, this Specification and good roofing practice.
- D. Contractor shall be thoroughly familiar with all codes, regulations and standards governing the work to be performed and shall provide written proof of all required licenses and permits prior to project commencement.
- E. Contractor shall be approved by Manufacturer for application of Manufacturer's products and systems and in good standing at the time of the work and shall coordinate with Manufacturer prior to bidding and commencement of work regarding any Manufacturer's warranty to be issued upon successful completion of the project.
- F. Contractor shall inspect the project to examine the actual job and site conditions and must be familiar with local conditions and all things required to complete the work that will have a bearing on its costs and completion.
- G. All substrates must be peel tested for adhesion strength and those results provided to Manufacturer prior to application of the coating system.
- H. Contractor is responsible for ensuring a trained foreman is onsite during the application of the coating system and any related work. A daily log of application activities and environmental conditions shall be maintained and available on-site with copies of specification, TDS, and MSDS. A copy of the activity log shall be submitted to Manufacturer upon completion of project.
- I. Contractor shall check wet film thickness during application of the coatings to ensure achievement of required coverage rates.
- J. In the event Contractor finds that performance or completion of the work will be delayed for any reason, Contractor shall notify the Owner, the Owner's Representative and Manufacturer in writing as soon as possible.
- K. There shall be no deviations made from the Specifications unless submitted in writing by the Contractor and approved in writing by the Specifier, Owner and Manufacturer.

1.6 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Products shall be delivered to jobsite in Manufacturer's original unopened and undamaged containers bearing Manufacturer's original labels. Package labels must be clearly visible on pallets. Verify products are within Manufacturer's recommended shelf life.
- B. Store all products in a dry, well ventilated, weather tight location at temperatures between 50° F and 99° F. Do not store products at higher temperatures or in direct sunlight. Protect all products from freezing or other damage during transit, handling and storage. Store and handle products in a manner that will ensure there is no possibility of contamination. Keep lids tightly sealed when not in use. Do not stack pallets more than two (2) high. If these storage conditions are not possible, special consideration in storage must be taken.
- C. Do not subject existing roof to unnecessary loading of stockpiled products or other materials.
- D. Record batch numbers in daily project activity log. Submit to Manufacturer upon project completion.
- E. Store and dispose of all products and materials used on the project in accordance with all federal, state and local requirements for the proper handling and disposal of such products and materials.

1.7 PROJECT CONDITIONS

A. Condition of Existing Substrate:

1. The Owner, Owner's Representative and Contractor shall thoroughly inspect and determine the condition of the roof system and substrate to be coated, and the suitability of the roof system for the application and performance of the coating system.
2. All surfaces and substrates which are to be coated must be properly prepared, clean, dry, structurally sound and free from any moisture, dirt, contaminants or any other conditions which may interfere with the application and performance of the coating system. Contractor shall approve the condition of the roof system and substrate prior to application of the roof coating system.
3. Wet insulation and any deteriorated or damaged decking or other materials must be removed and replaced before application of the coating system.
4. The roof coating shall have good resistance to ponding water. However, areas of prolonged ponding water may, depending on environmental conditions, require additional inspection and maintenance (including cleaning and re-coating) during the warranty period. The NRCA recommends that all roofs be designed and built to have positive drainage. Any questions or concerns about deck deflection as a result of ponding water conditions shall be directed to a competent and properly licensed design professional.
5. If any unusual, unexpected or concealed conditions are discovered at any time prior to or during the work, the Contractor shall stop work immediately and notify the Owner, Owner's Representative and Manufacturer in writing as soon as possible.

B. Protection and Coordination:

1. Owner will occupy the premises during the work. Contractor will cooperate with the Owner to allow for the continued use of the facilities during the work.
2. Contractor shall take all necessary precautions when using roof coatings or other materials around air intakes and air conditioning units to avoid any disturbance, including odors, for the Owner and building occupants. All air intakes and air conditioning shall be adequately protected or closed during the course of the work on the roofing system to prohibit odor intake into the building.
3. If ventilators exist on the roof, the Contractor shall determine what material is being exhausted onto the roof surface. Contractor shall contact the Manufacturer to determine if the exhaust materials will interfere with surface preparation, application, adhesion or other performance of the coating system.
4. Contractor shall take all necessary measures to protect unrelated work or adjacent areas from overspray and spillage.
5. Contractor shall coordinate scheduling with the Owner to relocate or protect vehicles, building occupants, building contents and unrelated work from damage.
6. Site clean-up during and after completion of the work shall be completed to Owner's reasonable satisfaction.

1.8 WEATHER AND SURFACE TEMPERATURE

A. Contractor shall proceed with roofing work only when the existing and forecasted weather conditions and surface temperatures will permit work to be performed in accordance with Manufacturer's recommendations and good roofing practice, including:

1. Ambient air temperature must be 40°F and rising, but not above 120°F during the entire application and curing process.
2. Surface temperatures must be between 40°F and 150°F during application. If surface temperatures exceed 150°F during application, wait for roof to cool.
3. Never apply coating to a wet or damp surface. Roof surface must be free from any moisture with no precipitation in the forecast until coating is dry. Do not apply coating if weather does not permit 4-6 hours of dry time prior to precipitation. Low humidity, low temperatures, cloud cover and calm air will slow the dry time.
4. Extra precaution is needed when applying material in windy conditions. Never spray material when excessive wind conditions exist. Contractor should monitor wind condition to prevent over-spray. If winds become excessive, spraying should stop.

1.9 PRE-APPLICATION CONFERENCE

- A. Prior to scheduled commencement of the coating application and any related work, Contractor shall conduct a meeting on the roof with the Architect, Owner, Manufacturer and any other persons directly involved with the performance of the work. The Contractor shall record conference discussions to include decisions, agreements, and open issues and furnish copies of recorded discussions to each attending party. The primary purpose of the meeting is to review methods and procedures related to the roofing work and any special Owner requirements.
- B. All parties shall view representative areas of the roofing substrate and discuss conditions of the substrate, penetrations and any other work to be completed prior to application of the coating system.
- C. Review roofing system requirements, specifications, detail drawings, Contract Documents and required submittals, both completed and in progress.
- D. Review and finalize the construction schedule related to roofing work, and verify availability of materials, Contractor's personnel, equipment and facilities needed to consistently make progress and avoid delays.
- E. Review results from Contractor's inspections, adhesion and non-destructive testing.
- F. Review forecasted weather conditions expected. Establish procedures for coping with unfavorable conditions, including the possibility of temporary roofing work.

1.10 WARRANTY

- A. Project warranties beyond those found on Product Data Sheets require Manufacturer approval prior to job commencement. Any warranties for the project must be submitted and accepted by the Owner at the time of contract award. Please contact Manufacturer for any requirements and associated costs or fees which may be associated with warranty issuance. Recommendations and requirements are subject to change from project to project based on existing conditions.
- B. Manufacturer may issue to the Building Owner either (a) Material Only Warranty or (b) Labor and Material Warranty, as may be agreed to at time of contract award. Any warranties issued shall be for the coating application only and shall not provide coverage for the existing roofing system, including the substrate or structural deck. Any presence by Manufacturer personnel on the project does not provide any additional coverage beyond that stated in the applicable warranty.
- C. The Contractor may provide the Owner with a workmanship warranty as may be agreed to by the Contractor at time of contract award.

1.11 REGULATORY AND SAFETY

- A. Contractor will perform all work in a safe, professional, timely and workmanlike manner and in accordance with all federal, state and local laws, rules and regulations related to the work to be performed hereunder, the Specifications and good roofing practice.
- B. Contractor shall be thoroughly familiar with all codes, regulations and standards governing the work to be performed and shall provide written proof of all required licenses and permits prior to project commencement.
- C. Contractor shall establish and enforce a safety program for its work and employees which meets or exceeds all federal, state and local laws, rules and regulations, including proper fall protection and all other applicable requirements of the Occupational Safety and Health Act of 1970 (OSHA), and all other requirements which may be necessary for the safety of its employees, Owner and the public.

PART 2 – PRODUCTS

2.1 GENERAL

- A. Products other than those described in Part 2 may be submitted for review and acceptance by Manufacturer. Manufacturer's review shall be for compatibility purposes only with Manufacturer's products. The specifications and application instructions for products not supplied by Manufacturer must be reviewed by the Owner and/or Owner's Representative for final approval and use on the project. Manufacturer will not provide any warranty coverage for products other than those supplied by the specified Manufacturer.

2.2 ACCEPTABLE MANUFACTURERS

- A. Uniflex Fluid Applied Roofing Systems, 101 W. Prospect Avenue, Cleveland, Ohio 44115
- B. Contact the Uniflex Technical Department at uniflex.technical@sherwin.com with any questions and for a complete list of approved products.

2.3 COMPONENTS

- A. Silicone Roof Coating: (Select One)
 - 1. Uniflex® 44-300 WHITE SILICONE
 - 2. Uniflex® 44-600 WHITE SILICONE
- B. Sealants:
 - 1. Uniflex Silicone Rubberized Roof and Flashing Sealant 44-900 White
 - 2. Uniflex® OneFlash Permanent Roof Repair Sealant 51-920 Gray

- C. Wash Primer:

- 1. Uniflex® Bond-It Wash Primer 38-620

Surface cleaner for EPDM membranes may be required for certain PVC membranes based on adhesion test results. **CAUTION:** Carbon black in the rinse water from EPDM may cause streaking or staining to exterior walls or parking lots. Verify local code requirements regarding water collection and reclamation.

- D. Additional Materials:

- 1. Walkways (optional)
#11 – C93 granules or like granules (.84 to 2.0 minimum in size) PART 3 – EXECUTION

1.1 INSPECTION AND TESTING

- A. All roof system areas shall be inspected for moisture in accordance within the guidelines of the Standard Practices for Moisture Surveying of Roofing and Waterproofing Systems by a person qualified and certified to provide proper interpretation of non-destructive moisture Survey data, requires knowledge of infrared theory, moisture migration, heat transfer, environmental effects, and roof construction as they apply to roof moisture analysis.
 - 1. Provide Moisture Survey analysis reports in accordance with the following industry standards, C1153, ASTM D7954, D7954M, – 15A and TAS 126-95 guidelines
 - 2. Evidence of Approved and Calibrated Moisture detection equip must be provided upon request by Uniflex.
 - 3. All field data collected from non-destructive moisture testing is relative and must be quantified by core cuts. Additional core cut requirements may be requested by manufacturer.
 - 4. Refer to the **Uniflex Technical Memo - RE: Moisture Survey Requirements**

- B. Based on inspection and testing, a roof plan shall be made to show all areas of water intrusion, ponding water, wet insulation, and any deteriorated or damaged decking or other materials.
- C. Contractor shall verify a minimum roof slope of 1/4 inch per foot and that all roof drains are clean and in good working order.
- D. Prior to application of the coating system, Contractor shall perform adhesion testing over substrates including previously coated and non-coated roof membranes. Contractor shall follow industry approved method for field adhesion test methods. The minimum test patch size shall be one square foot. Contractor shall allow roof coating to cure for a minimum of 72 hours prior to conducting peel test. must achieve a minimum of two (2) pounds per lineal inch. Results of less than two (2) pounds per lineal inch shall be reported to Manufacturer and retested using primer. Contractor shall perform adhesion testing in areas of existing roofing membrane indicating worn substrates, any change in substrate, areas that show evidence of ponding water conditions or previously coated areas. All adhesion test results shall be recorded and submitted to Manufacturer for additional evaluation.
 - 1. Where adhesion is less than desired, contact Roof Coating Manufacturer's for additional guidance.
- E. If any unusual, unexpected or concealed conditions are discovered at any time prior to or during the work, the Contractor shall stop work immediately and notify the Owner, Owner's Representative and Manufacturer in writing as soon as possible.

3.2 PREPARATION

- A. After inspection and testing, the Contractor shall make all necessary repairs to the roofing system. Contractor shall not proceed with application of the coating system until all repairs have been made and any unsatisfactory conditions have been corrected, including any repairs which may be recommended by the Manufacturer or any design professional. Preparation of the roof substrate is the responsibility of the Contractor.
- B. Contractor shall remove and replace any wet insulation and deteriorated or damaged decking or other materials with like kind or better-quality materials.
- C. Prior to power washing, Contractor shall repair all splits, open seams, tears, cuts and blisters in the membrane and flashings, and any other conditions affecting the water tightness of the roof. The membrane must be made sound and watertight. All repairs shall be made in accordance with NRCA guidelines and good roofing practice. Upon written request, Manufacturer can provide additional repair details.
- D. Any mechanical equipment and roof penetrations including stacks, vents and pipes must be securely installed, properly sealed and made completely watertight, and any abandoned pipes and vent stacks shall be removed, and holes filled in and roofed with like decking, insulation and membrane, all in accordance with NRCA guidelines and good roofing practice. Upon written request, Manufacturer can provide additional repair details.
- E. All roof curbs and parapet walls shall be properly sealed and waterproofed in accordance with NRCA guidelines and good roofing practice. Upon written request, Manufacturer can provide additional repair details.
- F. Pitch Pans: Remove one (1) inch of existing pitch pan material, fill and trowel to create a slight slope with Uniflex 58-360 Pitch Pan Roofing Sealant.
- G. Contractor shall secure and seal all loose metal in accordance with NRCA guidelines and good roofing practice. Upon written request, Manufacturer can provide additional repair details.
- H. All skylights must be sealed and made watertight in accordance with NRCA guidelines and good roofing practice. Upon written request, Manufacturer can provide additional repair details.
- I. Field Seams
 - 1. All membrane field seams should be inspected for any voids or openings that would affect the watertightness of the roof system.
 - 2. Field seam with voids or openings should be repaired in accordance with NRCA repair guidelines for the membrane type.

J. Stacks and other penetrations

1. Uniflex Sealant: Using a stiff bristled brush or sealant knife apply sealant at one-sixteenth (1/16) inch thick (60 wet mils) extending three (3) inches on horizontal and three (3) inches up vertical surface ensuring a smooth and continuous watertight finish.
2. Inspect all sealants at counter flashings and replace as needed.

K. Curb and Wall seams and other termination points

1. Uniflex Sealant: Using a stiff bristled brush or sealant knife apply sealant at one- sixteenth (1/16) inch thick (60 wet mils) install (1) layer of Uniflex roof sealant extending two (2) inches on each side of existing roof membrane seam ensuring a smooth and continuous watertight finish.
2. Inspect all sealants at counter flashings and replace as needed.

L. Wood Blocking:

Contractor shall inspect and replace any deteriorated or damaged wood blocking or sleepers in accordance with NRCA guidelines and good roofing practice. Upon written request, Manufacturer can provide additional repair details.

M. Expansion Joint and Control Joints:

Use curb flashing repair methods on the joint curbs only. Do not coat expansion or control joints with curb flashing materials. If existing expansion joint materials are repairable use materials and methods recommended by the original manufacturer of the joint. Replace the joint if deteriorated with a new expansion joint system, which will counter flash the UNIFLEX base flashing. **Please contact manufacturer for full details and requirements for warranted jobs. Recommendations and requirements are subject to change.**

N. Surface Cleaning

1. Contractor shall first remove any dirt or debris from the roof by using a broom or air broomer.
2. After brooming and prior to power washing, Contractor shall re-inspect the roof surface and flashings for any splits, open seams, tears, cuts and blisters in membrane and any other conditions affecting the water tightness of the roof. The membrane shall be repaired so water is not injected into the membrane during the cleaning process.
3. The roof shall be power washed using a power washer with greater than 2,000psi. The Contractor shall take caution not to inject water into the roofing substrate.
NOTE: Bond-it Wash Primer must be used when cleaning EPDM membranes.
4. Any areas of algae, mildew or fungus on the roof membrane or the existing coating shall be treated with a tri-sodium phosphate (TSP) or equivalent non-filming detergent and water solution.
5. Clear water rinse until all cleaning residue is removed.
6. After cleaning and rinsing the roof, Contractor should ensure that no dirt, debris or contaminants are present that may interfere with proper adhesion of the coating system.
7. Contractor shall allow 24-48 hours for complete drying before application of the coating system.
8. All substrates must be dry and in accordance with Roof Coating Manufacturer's published literature prior to installation of roof coating. It is the responsibility of the building owner or their representative to ensure substrate is dry and in acceptable condition for the application of a roof coating.

3.3 COATING SYSTEM APPLICATION

A. General:

1. Surface preparation is critical prior to application of the coating system. Contractor shall ensure that all surfaces and substrates which are to be coated have been properly prepared and are clean, dry, structurally sound and free from any moisture, dirt, contaminants or any other conditions which may interfere with the application and performance of the coating system.

B. Protection and Start-Up Procedures:

1. Contractor shall only apply coating when the existing or forecasted weather conditions and surface temperatures will permit work to be performed as described in Section 1.8.
2. Owner shall be notified of start times so that fresh air intakes may be closed, sealed off or adequately protected and HVAC units shut down.
3. If Contractor is spray applying the coating system, Contractor shall post notices a minimum of 48 hours around building and parking lots prior to any spraying.
4. Contractor shall protect unrelated work and adjacent surfaces from overspray or spillage by using masking tape, plastic/paper sheets, stretch wrap, tarps or plywood, or some other material.
5. Contractor shall remove drain screens and seal the drainpipe to prevent plugging of drain during the coating operation and shall unplug drains and reinstall screens after spray operation has been completed.
6. Contractor shall follow all of Manufacturer's mixing instructions for the products prior to application.

C. Application Methods:

1. Roller: For best results when using a roller, pour coating onto substrate and then spread using squeegee. Back roll using a $\frac{3}{4}$ " roller. Uniflex roof brushes should be used when embedding fabric.
2. Spray: Airless spray equipment with a recommended minimum air pressure of 5,000 psi at the tip and a tip size of .031 - .035 (e.g. .635 tip) is recommended for best results.
3. Contractor shall frequently verify correct mil thickness by the use of a standard wet mil gauge during application of the coating.
4. During application of the coating, Contractor will look for and correct any pinholes, blisters or conditions which may affect the performance of the roof coating.

D. Application of Roof Coating:

May be applied in one or multiple coats as conditions require. Spray applied is the preferred application. Roller application may require multiple coats on 15-20 year system applications.

1. Application Rates:

a. Ten (10) year UNIGUARD Warranty:

Apply one (1) layer of primary roof coating at one and a half (1.5) gallons per square [Twenty-four (24) wet mils; Twenty-two (22) mils DFT].

b. Fifteen (15) year UNIGUARD Warranty:

Apply one (1) layer of primary roof coating at two (2) gallons per square [Thirty-two (32) wet mils; Thirty (30) mils DFT].

c. Twenty (20) year UNIGUARD Warranty:

Apply one (1) layer of primary roof coating at two and a half (2.5) gallons per square [Forty (40) wet mils; Thirty-seven (37) mils DFT].

E. Walkways: (Optional Granular)

1. Prior to walkway surfacing allow for roof to cure for a minimum of 24hrs.
2. Apply additional roof coating in a contrasting color at traffic areas.
3. Apply additional roof coating at a minimum of one (1) gallon per square; Sixteen (16) wet mils.
4. Apply #11 - C93 granules or like granules (.84 to 2.0 minimum in size) roof granules uniformly into wet roof coating at a rate of 25 pounds per 100 square feet. (Note: if different granules are required, contact Uniflex Technical Department)
5. Allow roof coating to dry.
6. Remove loose particles to avoid clogging drains.

F. Traffic areas:

Cured silicone can be slippery. Limit pedestrian traffic to designated walkways.

G. REPAIRS

In the event that the coating is damaged or punctured, repairs are to be performed as follows:

Install one (1) coat of Uniflex44 Silicone roof coating at (as required to meet spec requirements) extending four (4) inches on each side of repair area.

3.4 FIELD QUALITY CONTROL

A. Limit traffic on coated surfaces for a minimum of two (2) days.

B. Final Observation and Verification

1. Contractor shall contact Uniflex for warranty issuance requirements and to schedule the final inspection.
2. Prior to demobilization from the site, a final inspection of the roof coating system shall be carried out by the Owner's Representative, Contractor, and Uniflex Field Technical Representative. Inspection by Uniflex is required for issuance of the final project warranty. Any inspection by Uniflex is for Uniflex warranty purposes only and shall not constitute acceptance of or responsibility for any improper workmanship by Contractor.
3. Any defects and non-compliance with the Specifications, Product Data Sheets or recommendations of Uniflex shall be itemized in a punch list. These items must be corrected by the Contractor to the satisfaction of the Owner and Uniflex prior to demobilization. Failure to satisfactorily complete punch list items will result in non-issuance of the project warranty.
4. Any areas of insufficient coating thickness will require recoating by Contractor.
5. The roof coating system must be fully adhered to the roof substrate. Any voids left under the system must be corrected.
6. All work for Uniflex warranty must be completed using Uniflex materials. Material invoices must be submitted to Uniflex to verify products installed.
7. To maintain warranty eligibility and coverage, Owner must follow all inspection and maintenance requirements described in the Uniflex Owner's Packet.

3.5 JOB SITE CLEAN UP

- A. Remove masking and protection.
- B. Notify Owner project is complete, so HVAC vents can be opened, and units restarted.
- C. Remove all roofing related trash and debris from jobsite and dispose of all such materials in accordance with all federal, state and local requirements for the proper handling and disposal of such materials.

Uniflex does not practice or provide any architecture or engineering services. If an Owner has a need for architectural or engineering services in relation to the project, the Owner should obtain the services of a competent and properly licensed architect or structural engineer. Neither Uniflex nor its employees offer any opinion or make any representation or warranty, and expressly disclaims any opinion, representation or warranty, on the strength or soundness of the structure, including the roof deck. Any inspections of the roofing system by Uniflex or its employees are for suitability of the substrate for roof coating application and for warranty issuance purposes only.

END OF SECTION



RUBBERIZED SILICONE ROOF COATING 44-300 WHITE

Title 24
compliant



PRODUCT DESCRIPTION

Uniflex® Silicone44™ Rubberized Silicone White Roof Coating is a premium silicone rubber roof ideal for ponding water.

GENERAL USES

Metal, single ply, smooth BUR, APP, SBS, modified bitumen, polyurethane foam, cured concrete, existing asphaltic and elastomeric roof coatings and other approved surfaces.

NOT for use on roof shingles.

EPDM rubber roofs must be rinsed with KST Bond-It designed for EPDM roofs. An adhesion peel test must be performed to ensure proper adhesion prior to application. Other roof substrates including TPO, PVC, metal or asphalt may require primer before application. All Mod Bit and Asphalt surfaces must be aged and no substances present that can bleed through and cause discoloring. All single ply such as TPO, PVC and EPDM must be aged to ensure proper adhesion.

PACKAGING INFORMATION

SKU

KST044300-27	55-gallon drum
KST044300-20	5-gallon pail

PRODUCT CHARACTERISTICS

Color	White
Vehicle Base	100% Silicone
Weight per Gallon	11.05 +/- .5 lbs
Solid by Weight	98% +/-
Solid by Volume	98% +/-
Viscosity (ASTM D 562)	7,098 cps
Dry Film Thickness (@ 5 Gallons 250 sq./ft.)	30 mils
Dry Time	
Rain Safe	60 minutes
Exposure	4-6 hours
Between coats	6 hours minimum
Full cure @ 70° F, 50% relative humidity	72 hours
<i>Drying Time is temperature, humidity and film thickness dependent</i>	
VOC	< 50 g/L
pH @ 77° F	8.0
Flash Point	>290° F
Clean Up	Virgin Mineral Spirits or Naptha

PERFORMANCE CHARACTERISTICS

Elongation	425%
Tensile Strength	275 psi
Tear Resistance (ASTM D 624)	37 lbs/linear feet
Permeance (ASTM E 96 Procedure BW)	4 US perms
Solar Reflectance Index	110
Reflectivity	0.90
Thermal Emissivity	0.90

SURFACE PREPARATION

All surfaces should be clean and dry. Application to a wet or damp surface will compromise adhesion. Treat rust with proper primer. If mildew is present, surfaces should be cleaned with a proper bleach solution (one part bleach to 2 parts water). It is necessary to pressure wash all surfaces (using a wide spray tip, minimum 2000 psi) before applying this roof coating. A pull test sample should be done on all roofs to verify proper long term adhesion. Asphalt-bleed blocking primer is recommended over asphalt substrates to limit staining and discoloration. Repair cracks and damaged areas with Uniflex SILICONE44 Rubberized Silicone Roof and Flashing Sealant. Allow all sealants and primers to fully cure per manufacturer directions prior to top coating.

PRECAUTIONS: For exterior use only. Protect building inlets from product vapors or fumes. DO NOT allow product to freeze. Protective clothing, gloves and eyewear should be used during application of these products. When transporting this product, ensure that lid is tight and pail secure and upright. DO NOT allow pail to tumble as this may cause lid to loosen and leakage to occur. Do not transport on passenger seats or inside the passenger compartment of any vehicle. Store product in the cargo area of vehicle, and secure over protective clothes to prevent damage due to accidental spills. For longest life, store in controlled environment, 45° F- 80° F. Avoid continual storage in direct sunlight or at temperatures above 99 °F. Seal container when not in use. Do not walk on coating until fully cured. The contents of this container are reactive with moisture in the air. Curing starts immediately upon opening and opened product cannot be returned. Use all contents within one day of opening. DO NOT reuse empty containers.

Ponding water creates excessive weight on roofs and may compromise structural integrity leading to a potential collapse hazard. Always follow the National Roofing Contractors Association guidelines to remove ponding water from roof surfaces. **SLIP WARNING:** Use extreme caution when walking or working on silicone coated surfaces, and apply traction promoting particles in coating if needed for walkway areas. If there will be foot traffic on roof after installation (and cured), embed 40 - 60 lbs. of #11 ceramic granules per 100 sq ft into top layer of coating to create a non-skid finish. Surfaces without granules are slippery when damp or wet. Use OSHA approved fall protection when on roof surfaces



RUBBERIZED SILICONE ROOF COATING 44-300 WHITE



APPLICATION CONDITIONS

Ideal application is when surface and air temperatures are between 45 °F and 99 °F. Do not apply to roofs when air temperatures exceed 120 °F. Surface must be completely dry including dew before applying. Apply on a clear, dry day with a max humidity level of 70%. DO NOT apply if heavy dew or rain is expected within 2 to 4 hours. KEEP FROM FREEZING.

FOR EXTERIOR USE ONLY. DO NOT THIN.

APPLICATION

NOTE: Material may experience separation while in storage with clear material surfacing to the top. Recommend a thorough manual stir and mix of the product prior to application. Power agitation may entrain air into the product if not performed at a slow speed. DO NOT machine shake. Pour product onto roof surface and spread using a roof brush or notched squeegee to achieve a dry film thickness of 30 mils. Backroll with a 3/4" nap roller to fill voids and create a uniform finish. Avoid excessive rolling. If using an airless sprayer, a hydraulic pump with 5,000 - 7,000 psi and a .531" tip is required. If using airless sprayer, clean sprayer using virgin mineral spirits. Coating application options: If one coat application is desired, apply 1 coat at 50 sq/ft per gallon. If applying in 2 coats, apply each coat in 1 gallon per 100 sq/ft. Finished coverage will be the same, at covering 250 sq/ft of roof surface per 5 gallon bucket. DO NOT apply if heavy dew or rain is expected within 2 to 4 hours. Refer to UNIFLEX Fluid Applied Roofing Systems Specifications as application rate and technique may vary with substrate type.

WARRANTY

Uniflex and The Sherwin-Williams Company warrants Silicone44™ Rubberized Silicone Roof Coating to be free from defects in materials and manufacturing. Under this warranty, we will provide, at no charge, a quantity of Silicone44™ Rubberized Silicone Roof Coating sufficient to replace any Silicone44™ Rubberized Silicone Roof Coating proven to be defective when applied according to our written instructions and in applications recommended by us as suitable for the product. **THIS LIMITED WARRANTY IS THE BUYER'S SOLE AND EXCLUSIVE REMEDY AGAINST UNIFLEX AND THE SHERWIN-WILLIAMS COMPANY REGARDING THE PRODUCT. IN NO EVENT SHALL UNIFLEX OR THE SHERWIN-WILLIAMS COMPANY BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, INCIDENTAL, INDIRECT, PUNITIVE OR OTHER DAMAGES ARISING FROM THE USE OR PERFORMANCE OF THE PRODUCT.**

Since methods of application and on site conditions can affect performance, **UNIFLEX AND THE SHERWIN-WILLIAMS COMPANY MAKE NO OTHER WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE REGARDING THE PRODUCT, AND UNIFLEX AND THE SHERWIN-WILLIAMS COMPANY HEREBY DISCLAIM ALL SUCH OTHER WARRANTIES.**

DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of KST Coatings- A Business Unit of the Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of the publication. Consult your Uniflex Technical Representative to obtain the most recent Product Data Information.

If further information is needed, contact Uniflex Technical Service at
1-888-321-3539

Revised 1.09.2023

SAFETY DATA SHEET

44-300

Section 1. Identification

Product name : UNIFLEX® 44 Rubberized Silicone White Roof Coating

Product code : 44-300

Other means of identification : Not available.

Product type : Liquid.

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

Paint or paint related material.

Manufacturer : KST Coatings
A Business Unit of the Sherwin-Williams Co.
101 W. Prospect Avenue
Cleveland, OH 44115

Emergency telephone number of the company : US / Canada: (216) 566-2917
Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

Product Information Telephone Number : US / Canada: (888) 321-3539
Mexico: Not Available

Regulatory Information Telephone Number : US / Canada: (216) 566-2902
Mexico: Not Available

Transportation Emergency Telephone Number : US / Canada: (800) 424-9300
Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 4
ACUTE TOXICITY (oral) - Category 4
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
SKIN SENSITIZATION - Category 1
CARCINOGENICITY - Category 1A
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 3% (oral), 3% (dermal), 11% (inhalation)

GHS label elements

Hazard pictograms :



Signal word : Danger

Date of issue/Date of revision : 8/16/2023 **Date of previous issue** : 6/13/2023

44-300 UNIFLEX® 44 Rubberized Silicone White Roof Coating

Version : 12

1/14

SHW-85-NA-GHS-US

Section 2. Hazards identification

Hazard statements : Combustible liquid.
Harmful if swallowed.
May cause an allergic skin reaction.
Causes serious eye damage.
May cause cancer.
Causes damage to organs. (upper respiratory tract)
May cause damage to organs through prolonged or repeated exposure. (blood system)

Precautionary statements

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from flames and hot surfaces. No smoking. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Response : IF exposed: Call a POISON CENTER or doctor. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Storage : Store locked up. Store in a well-ventilated place. Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements WARNING: This product contains chemicals known to the State of California to cause cancer. FOR INDUSTRIAL USE ONLY.

Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification : Not available.

CAS number/other identifiers

Ingredient name	% by weight	CAS number
Calcium Carbonate	≥25 - ≤50	471-34-1
Titanium Dioxide	≤10	13463-67-7
Methyl Ethyl Ketoxime	<10	96-29-7
Methyl Tris(methylethylketoxime)silane	≤5	22984-54-9
Fumed Amorphous Silica	≤5	112945-52-5
Crystalline Silica, respirable powder	≤0.3	14808-60-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : Causes damage to organs following a single exposure if inhaled.
- Skin contact** : Causes damage to organs following a single exposure in contact with skin. May cause an allergic skin reaction.
- Ingestion** : Harmful if swallowed. Causes damage to organs following a single exposure if swallowed.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
- Ingestion** : Adverse symptoms may include the following:
stomach pains

Indication of immediate medical attention and special treatment needed, if necessary

Section 4. First aid measures

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO₂, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.
- Specific hazards arising from the chemical** : Combustible liquid. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
metal oxide/oxides
- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Section 6. Accidental release measures

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits
Calcium Carbonate	471-34-1	NIOSH REL (United States, 10/2020). [calcium carbonate] TWA: 5 mg/m ³ 10 hours. Form: Respirable fraction TWA: 10 mg/m ³ 10 hours. Form: Total OSHA PEL (United States, 5/2018). TWA: 15 mg/m ³ 8 hours. Form: Total dust ACGIH TLV (United States, 1/2022).
Titanium Dioxide	13463-67-7	

Section 8. Exposure controls/personal protection

Methyl Ethyl Ketoxime	96-29-7	TWA: 2.5 mg/m ³ 8 hours. Form: respirable fraction, finescale particles OARS WEEL (United States, 4/2022). Skin sensitizer.
Methyl Tris(methylethylketoxime)silane	22984-54-9	TWA: 10 ppm 8 hours.
Fumed Amorphous Silica	112945-52-5	None.
Crystalline Silica, respirable powder	14808-60-7	NIOSH REL (United States, 10/2020). [SILICA, AMORPHOUS] TWA: 6 mg/m ³ 10 hours. OSHA PEL Z3 (United States, 6/2016). TWA: 250 mppcf / (%SiO ₂ +5) 8 hours. Form: Respirable TWA: 10 mg/m ³ / (%SiO ₂ +2) 8 hours. Form: Respirable OSHA PEL (United States, 5/2018). [Silica, crystalline] TWA: 50 µg/m ³ 8 hours. Form: Respirable dust ACGIH TLV (United States, 1/2022). [Silica, crystalline] TWA: 0.025 mg/m ³ 8 hours. Form: Respirable fraction NIOSH REL (United States, 10/2020). [SILICA, CRYSTALLINE (AS RESPIRABLE DUST)] TWA: 0.05 mg/m ³ 10 hours. Form: respirable dust

Occupational exposure limits (Canada)

Ingredient name	CAS #	Exposure limits
Methyl Ethyl Ketoxime	96-29-7	OARS WEEL (United States, 4/2022). Skin sensitizer.
Quartz	14808-60-7	TWA: 10 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2022). [Silica, Crystalline - alpha quartz and Cristobalite Respirable] TWA: 0.025 mg/m ³ 8 hours. Form: Respirable CA Quebec Provincial (Canada, 6/2022). [Silica Crystalline -Quartz] TWA/EV: 0.1 mg/m ³ 8 hours. Form: Respirable dust. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 0.025 mg/m ³ 8 hours. Form: Respirable particulate CA Ontario Provincial (Canada, 6/2019). [Silica, Crystalline (Quartz/Tripoli)] TWA: 0.1 mg/m ³ 8 hours. Form: Respirable particulate matter. CA Saskatchewan Provincial (Canada, 7/2013). TWA: 0.05 mg/m ³ 8 hours. Form: respirable fraction

Occupational exposure limits (Mexico)

Section 8. Exposure controls/personal protection

	CAS #	Exposure limits
None.		

Biological exposure indices (United States)

No exposure indices known.

Biological exposure indices (Canada)

No exposure indices known.

Biological exposure indices (Mexico)

No exposure indices known.

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state	: Liquid.
Color	: Not available.
Odor	: Not available.
Odor threshold	: Not available.
pH	: Not applicable.
Melting point/freezing point	: Not available.
Boiling point, initial boiling point, and boiling range	: 100°C (212°F)
Flash point	: Closed cup: 85°C (185°F) [Pensky-Martens Closed Cup]
Evaporation rate	: Not available.
Flammability	: Not available.
Lower and upper explosion limit/flammability limit	: Lower: 1% Upper: 5%
Vapor pressure	: 4.5 kPa (33.659 mm Hg)
Relative vapor density	: Not available.
Relative density	: 1.39
Solubility(ies)	:

Media	Result
cold water	Not soluble

Partition coefficient: n-octanol/water	: Not applicable.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >20.5 mm ² /s (>20.5 cSt)
Molecular weight	: Not applicable.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Calcium Carbonate	LD50 Oral	Rat	6450 mg/kg	-
Methyl Ethyl Ketoxime	LD50 Oral	Rat	930 mg/kg	-
Fumed Amorphous Silica	LD50 Oral	Rat	3160 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Calcium Carbonate	Eyes - Severe irritant	Rabbit	-	24 hours 750 ug	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours 300 ug l	-
Methyl Ethyl Ketoxime	Eyes - Severe irritant	Rabbit	-	100 uL	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Titanium Dioxide	-	2B	-
Fumed Amorphous Silica	-	3	-
Crystalline Silica, respirable powder	-	1	Known to be a human carcinogen.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Methyl Ethyl Ketoxime	Category 1 Category 3	-	upper respiratory tract Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Methyl Ethyl Ketoxime	Category 2	-	blood system
Methyl Tris(methylethylketoxime)silane	Category 2	-	-
Crystalline Silica, respirable powder	Category 1	inhalation	-


Aspiration hazard


Not available.


Section 11. Toxicological information


Information on the likely routes of exposure : Not available.

Potential acute health effects


Eye contact : Causes serious eye damage. 

Inhalation : Causes damage to organs following a single exposure if inhaled. 


Skin contact : Causes damage to organs following a single exposure in contact with skin. May cause an allergic skin reaction. 


Ingestion : Harmful if swallowed. Causes damage to organs following a single exposure if swallowed. 

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following: 
pain
watering
redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following: 
pain or irritation
redness
blistering may occur

Ingestion : Adverse symptoms may include the following: 
stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.


Long term exposure


Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. 

Carcinogenicity : May cause cancer. Risk of cancer depends on duration and level of exposure. 

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Section 11. Toxicological information

Route	ATE value
Oral	1250 mg/kg
Dermal	13750 mg/kg

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Calcium Carbonate	Acute LC50 >56000 ppm Fresh water Chronic NOEC 16.5 mg/l Fresh water	Fish - <i>Gambusia affinis</i> - Adult Fish - <i>Rhamdia quelen</i>	96 hours 30 days
Titanium Dioxide	Acute LC50 >1000000 µg/l Marine water	Fish - <i>Fundulus heteroclitus</i>	96 hours
Methyl Ethyl Ketoxime	Acute LC50 843000 µg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Methyl Ethyl Ketoxime	-	2.5 to 5.8	Low

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-

Special precautions for user : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according to IMO instruments : Not available.

Proper shipping name : Not available.

Section 15. Regulatory information

SARA 313

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer.

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Section 15. Regulatory information

International lists

- Australia inventory (AIIIC):** Not determined.
- China inventory (IECSC):** Not determined.
- Japan inventory (CSCL):** Not determined.
- Japan inventory (ISHL):** Not determined.
- Korea inventory (KECI):** Not determined.
- New Zealand Inventory of Chemicals (NZIoC):** Not determined.
- Philippines inventory (PICCS):** Not determined.
- Taiwan Chemical Substances Inventory (TCSI):** Not determined.
- Thailand inventory:** Not determined.
- Turkey inventory:** Not determined.
- Vietnam inventory:** Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	*	4
Flammability		2
Physical hazards		0

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 4	On basis of test data
ACUTE TOXICITY (oral) - Category 4	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
CARCINOGENICITY - Category 1A	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method

History

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Version : 12

Key to abbreviations :

- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- N/A = Not available
- SGG = Segregation Group

Section 16. Other information

UN = United Nations

▣ Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.