



CENTRALBIDDING
FROM CENTRAL AUCTION HOUSE

**5000128356- PURCHASE OF PLUMBING PARTS FOR THE EASTBANK
WAREHOUSE**

Jefferson Parish Government

Project documents obtained from www.CentralBidding.com

08-Oct-2019 08:42:13 AM



Bid Number 50-128356

Purchase of plumbing parts for the Eastbank Warehouse

October 10, 2019 at 11:00 am

ATTENTION VENDORS!!!

Please review all pages and respond accordingly, complying with all provisions in the technical specifications and Jefferson Parish Instructions for Bidders and General Terms and Conditions. All bids must be received in the Purchasing Department by the bid due date and time.

**Jefferson Parish Purchasing Department
200 Derbigny Street
General Government Building, Suite 4400
Gretna, LA 70053**

**Buyer Name: Rae Lynn Scott
Buyer Email: rscott@jeffparish.net
Buyer Phone: 504-364-2688**

DATE: 10/04/2019

INVITATION TO BID
THIS IS NOT AN ORDER

Page: 1

BID NO.: 50-00128356

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

VENDOR: 27118 BLANK BID COPY VENDOR

BUYER: RSCOTT@jeffparish.net

Bids will be received until 11:00 AM, 10/10/2019 via online at www.jeffparishbids.net or by hand delivery, USPS mail or other courier service to Purchasing Department, 200 Derbigny Street (General Government Building), Suite 4400, Gretna, LA 70053. For convenience, bidders may also submit bids in the East Bank Purchasing Department, Suite 404, Jefferson Parish Joseph S. Yenni Building, 1221 Elmwood Park Blvd., Jefferson LA 70123. However, if submitting bids on the day of bid opening, bidders must submit at the West Bank location only.

All bids submitted are subject to these instructions and general conditions and any special conditions and specifications contained herein, all of which are made part of this bid proposal reference. By submitting a bid, vendor agrees to comply with all provisions of Louisiana Law, as well be in compliance with the Jefferson Parish Code of Ordinances, Louisiana Code of Ethics, applicable Jefferson Parish ethical standards and Jefferson Parish Resolution No. 113546 and/or Resolution No. 113647. A copy of these resolutions may be obtained from the Office of the Parish Clerk, Suite 6700, Jefferson Parish General Government Building, 200 Derbigny Street, Gretna, LA 70053. You may also obtain a copy by visiting the Purchasing Department webpage at purchasing.jeffparish.net and clicking on On-line forms.

All vendors submitting bids should register as a Jefferson Parish vendor if not already yet registered. Registration forms may be downloaded from <http://purchasing.jeffparish.net> and by clicking on Vendor Information. Current W-9 forms with respective Tax Identification numbers and vendor applications may be submitted at any time; however, if your company is not registered and/or a current W-9 form is not on file, vendor registration is mandatory. Further, a current W-9 form and respective Tax Identification number must be supplied upon contract execution, should you be awarded a contract and/or issued purchase order. Failure to do so may result in delay of payment.

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. Delivered, anywhere within the Parish as designated by the Purchasing Department. JEFFERSON PARISH WILL ACCEPT ONE BID ONLY FROM EACH VENDOR. Items bid must meet specifications. JEFFERSON PARISH will accept one price for each item unless otherwise indicated. Two or more prices for one item will result in bid rejection. Bidders are required to complete, sign and return the bid form and/or complete and return the associated line item pricing forms as indicated. The price quoted for work shall be stated in figures. In the event there is a difference in unit prices and totals, the unit prices shall prevail.

JEFFERSON PARISH reserves the right to award contracts or place orders on a lump sum or individual item basis, or such combination, as shall in its judgment be in the best interest of JEFFERSON PARISH. Every contract or order shall be awarded to the LOWEST RESPONSIVE and RESPONSIBLE BIDDER, taking into consideration the CONFORMITY WITH THE SPECIFICATIONS and the DELIVERY AND/OR COMPLETION DATE.

PROTESTS: Only those vendors that submit bids in response to this solicitation may protest any element of the procurement, in writing to the Director of the Purchasing Department. Written protest must be received within 48 hours of the release of the bid tabulation by the Purchasing Department. After consultation, the Parish Attorney's Office will then respond to protests in writing. (For more information, please see Chapter 2, Article VII, Division 2, Sec. 2-914.1 of the Jefferson Parish Code of Ordinances.)

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 the 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 requires all products to be new (current) and all work must be performed according to standard practices for the project. Unless otherwise specified, no aftermarket parts will be accepted. Unless otherwise specified, all workmanship and materials must have at least one (1) year warranty, in writing, from the date of delivery and/or acceptance of the project. 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.

If this bid requires a pre-bid conference (see Additional Requirements section), bidders are advised that such conference will be held to allow bidders the opportunity to identify any discrepancies in the bid specifications and seek further clarification regarding instructions. The Purchasing Department will issue a written response to bidders' questions in the form of an Addendum.

All formal Addenda require written acknowledgment on the bid form by the bidder. Failure to acknowledge an Addendum on the bid form shall cause the bid to be rejected; JEFFERSON PARISH reserves the right to award bid to next lowest responsive and responsible bidder in this event.

USE OF BRAND NAMES AND STOCK NUMBERS: Where brand names and stock numbers are specified, it is for the purpose of establishing certain minimum standards of quality. Bids may be submitted for products of equal quality, provided brand names and stock numbers are specified. Complete product data may be required prior to award.

Quantities listed are for bidding purposes only. Actual requirements may be more or less than quantities listed.

Bidders are not to exclude from participation in, deny the benefits of, or subject to discrimination under any program or activity, any person in the United States on the grounds of race, color, national origin, or sex; nor discriminate on the basis of age under the Age Discrimination Act of 1975, or with respect to an otherwise qualified handicapped individual as provided in Section 504 of the Rehabilitation Act of 1973, or on the basis of religion, except that any exemption from such prohibition against discrimination on the basis of religion as provided in the Civil Rights Act of 1954, or Title VI and VII of the Act of April 11, 1958, shall also apply. This assurance includes compliance with the administrative requirements of the Revenue Sharing final handicapped discrimination provisions contained in Section 51.55 (c), (d), (e), and (k)(5) of the Regulations. New construction or renovation projects must comply with Section 504 of the 1973 Rehabilitation Act, as amended, in accordance with the American National Standard Institute's specifications (ANSI A117.1-1961).

Jefferson Parish and its partners as the recipients of federal funds are fully committed to awarding a contract(s) to firm(s) that will provide high quality services and that are dedicated to diversity and to containing costs. Thus, Jefferson Parish strongly encourages the involvement of minority and/or woman-owned business enterprises (DBE's, including MBE's, WBE's and SBE's) to stimulate participation in procurement and assistance programs.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS**IN ACCORDANCE WITH STATE REGULATIONS JEFFERSON PARISH OFFERS ELECTRONIC PROCUREMENT TO ALL VENDORS**

This electronic procurement system allows vendors the convenience of reviewing and submitting bids online. This is a secure site and authorized personnel have limited read access only. Bidders are encouraged to submit electronically using this free service; while the website accepts various file types, one single PDF file containing all appropriate and required bid documents is preferred. Bidders submitting uploaded images of bid responses are solely responsible for clarity. If uploaded images/documents are not legible, then bidder's submission will be rejected. Please note all requirements contained in this bid package for electronic bid submission.

Please visit our E-Procurement Page at www.jeffparishbids.net to register and view Jefferson Parish solicitations. For more information, please visit the Purchasing Department page at <http://purchasing.jeffparish.net>.

ADDITIONAL REQUIREMENTS FOR THIS BID

PLEASE MATCH THE NUMBERS PRINTED IN THIS BOX WITH THE
CORRESPONDING INSTRUCTIONS BELOW.

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1. All bidders must attend the MANDATORY pre-bid conference and will be required to sign in and out as evidence of attendance. In accordance with LSA R.S. 38:2212(i), all prospective bidders shall be present at the beginning of the MANDATORY pre-bid conference and shall remain in attendance for the duration of the conference. Any prospective bidder who fails to attend the conference or remain for the duration shall be prohibited from submitting a bid for the project.
2. Attendance to this pre-bid conference is optional. However, failure to attend the pre-bid conference shall not relieve the bidder of responsibility for information discussed at the conference. Furthermore, failure to attend the pre-bid conference and inspection does not relieve the successful bidder from the necessity of furnishing materials or performing any work that may be required to complete the work in accordance with the specification with no additional cost to the owner.
3. Contractor must hold current applicable JEFFERSON PARISH licenses with the Department of Inspection and Code Enforcement. Contractor shall obtain any and all permits required by the JEFFERSON PARISH Department of Inspection and Code Enforcement. The contractor shall be responsible for the payment of these permits. All permits must be obtained prior to the start of the project. Contractor must also hold any and all applicable Federal and State licenses. Contractor shall be responsible for the payment of these permits and shall obtain them prior to the start of the project.
4. A LA State Contractor's License will be required in accordance with LSA R.S. 37:2150 et. seq. and such license number will be shown on the outside of the bid envelope. Failure to comply will cause the bid to be rejected. Additionally if submitting the bid electronically, then the license number must be entered in the appropriate field in the Electronic Procurement system. Failure to comply will cause the bid to be rejected.
5. It is the bidder's responsibility to visit the job site and evaluate the job before submitting a bid.
6. Job site must be clean and free of all litter and debris daily and upon completion of the contract. Passageways must be kept clean and free of material, equipment, and debris at all times. Flammable material must be removed from the job site daily because storage will not be permitted on the premises. Precautions must be exercised at all times to safeguard the welfare of JEFFERSON PARISH and the general public.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

7. **PUBLIC WORKS BIDS:** All awards for public works in excess of \$5,000.00 will be reduced to a formal contract which shall be recorded at the contractor's expense with the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. A price list of recordation costs may be obtained from the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. All awards in excess of \$25,000.00 will require both a performance and a payment bond. Unless otherwise stated in the bid specifications, the performance bond requirements shall be 100% of the contract price. Unless otherwise state in the bid specifications, the payment bond requirements shall be 100% of the contract price. Both bonds shall be supplied at the signing of the contract.
8. **NON-PUBLIC WORKS BIDS:** A performance bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The performance bond shall be supplied at the signing of the contract.
9. **NON-PUBLIC WORKS BIDS:** A payment bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The payment bond shall be supplied at the signing of the contract.
10. All bidders must comply with the requirements stated in the attached "Standard Insurance Requirements" sheet attached to this bid solicitation. Prior to contract executions/purchase order issuance, the successful bidder will be required to provide final insurance certificates which shall name Jefferson Parish as an additional insured in accordance with the instructions in the aforementioned "Standard Insurance Requirements" sheet.
11. A bid bond will be required with bid submission in the amount of 5% of the total bid, unless otherwise stated in the bid specifications. Acceptable forms shall be limited to cashier's check, certified check, or surety bid bond. All sureties must be in original format (no copies). If submitting a bid online, vendors must submit an electronic bid bond through the respective online clearinghouse bond management system(s) as indicated in the electronic bid solicitation on Central Auction House. No scanned paper copies of any bid bond will be accepted as part of the electronic bid submission.
12. This is a requirements contract to be provided on an as needed basis. JEFFERSON PARISH makes no representations on warranties with regard to minimum guaranteed quantities unless otherwise stated in the bid specifications.
13. Freight charges should be included in total cost when quoting. If not quoted FOB DELIVERED, freight must be quoted as a separate item. Bid may be rejected if not quoted FOB DELIVERED or if freight charges are not indicated on bid form.
14. **PUBLIC WORKS BIDS - Completed, Signed and Properly Notarized Affidavits Required;** This applies to all solicitations for construction, alteration or demolition of public buildings or projects, in conformity with the provisions contained in LSA-RS 38:2212.9, LSA-RS 38:2212.10, LSA-RS 38:2224, and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Conviction Affidavit, Non-Collusion Affidavit, Campaign Contribution Affidavit, Debt Disclosures Affidavit and E-Verify Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
15. **NON PUBLIC WORK BIDS - Completed, Signed and Properly Notarized Affidavits Required** in conformity with the provisions contained in LSA - RS 38:2224 and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Collusion Affidavit, Debt Disclosures Affidavit and Campaign Contribution Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled NON PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
16. The ensuing contract for this bid solicitation may be eligible for FEMA reimbursement and/or Federal funding/reimbursement. As such, the referenced appendix will be applicable accordingly and shall be considered a part of the bid documents. All applicable certifications must be duly completed, signed and submitted with bid submission. Failure to submit applicable certifications with bid submission will result in bid rejection.

It shall be the duty of every parish officer, employee, department, agency, special district, board, and commission; and the duty of every contractor, subcontractor, and licensee of the parish, and the duty of every applicant for certification of eligibility for a parish contract or program, to cooperate with the Inspector General in any investigation, audit, inspection, performance review, or hearing pursuant to Jefferson Parish Code of Ordinances Section 2-155.10(19). By submitting a bid, vendor acknowledges this and will abide by all provisions of the referenced Jefferson Parish Code of Ordinances.

DATE: 10/04/2019

INVITATION TO BID
THIS IS NOT AN ORDER

Page: 4

BID NO.: 50-00128356

JEFFERSON PARISH
PURCHASING DEPARTMENT
P.O. BOX 9
GRETNA, LA. 70054-0009
504-364-2678

VENDOR: 27118 BLANK BID COPY VENDOR

BUYER: RSCOTT

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.

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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

4 Weeks

INDICATE STARTING TIME (IN DAYS) FOR CONSTRUCTION WORK

INDICATE COMPLETION TIME (IN DAYS) FOR CONSTRUCTION WORK

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 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) _____

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

FIRM NAME:

Coburns Supply

SIGNATURE:

(Must be signed here)



TITLE:

Outside Sales

PRINT OR TYPE NAME:

Mark Tate

ADDRESS:

1849 Commercial Drive

CITY, STATE:

Harvey LA

ZIP:

70058

TELEPHONE:

(225) 202-7808

FAX:

(505) 348-1095

EMAIL ADDRESS:

mtate@coburns.com

TOTAL PRICE OF ALL BID ITEMS: \$ 3145.50

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00128356

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
1	24.00	EA	PURCHASE OF PLUMBING PARTS FOR THE EASTBANK WAREHOUSE 0010 RESTRAINER, JOINT, 12 IN, MJ, FOR C-900, DOMESTIC, WITH BOXED GASKET AND BAKED ON BLUE TEFLON COATED BOLTS AND NUTS, EBAA MEGALUG #2012PEC, STK. # 0518240 Sigma D-Sleep 12tt	104.25	2502.00
2	6.00	EA	0020 NUT, OPERATING, #G-38, FITS 4, 6, & 8 IN RESILENT SEAT VALVE, MUELLER #175829 STK. # 0655900 M&H	19.45	116.70
3	2.00	EA	0030 BEND, 90 DEGREE, 8 INCH, DUCTILE IRON, MECH JOINT, FUSION BONDED EPOXY COATED, NO ACCESSORIES, MUST HAVE AWWA, ASTM, OR ANSI APPROVAL AND WRITTEN PROOF OF ISO9001 CERTIFICATION STK. # 0064780 Sigma Edmb890	102.00	204.00
4	6.00	EA	0040 PLUG, SOLID, 8 IN, DUCTILE IRON MECHANICAL JOINT, EPOXY COATED IN AND OUT, NO ACCESSORIES, MUST HAVE AWWA, ASTM, OR ANSI APPROVAL AND WRITTEN PROOF OF ISO9001 CERTIFICATION STK. # 0090030 Sigma Edmp8	53.80	322.80

CERTIFICATE OF COMPLIANCE

Certificate Number 20120510 – MH29758
Report Reference MH29758 – 2004 December 02
Issue Date 2012 May 10

Issued to: **SIGMA CORP**
700 GOLDMAN DR
CREAMRIDGE, NJ 08514 USA

This is to certify that **Drinking Water System Components**
representative samples of

Pipes and Related Products

Trade Dsg	Water Contact Temp (°C)	Water Contact Mtl
Pipe Fittings		
"Asphalt Coated Fittings" 2-inch and greater	23	Asphalt
Epoxy Coated Fittings, 2 in. and greater	23	Epoxy


Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: NSF/ANSI 61 (2007a), "Drinking Water System Components - Health Effects."

Products additionally investigated for a weighted average lead content 0.25% were investigated to Annex G of NSF/ANSI 61 (2008).

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Classification Mark should be considered as being covered by UL's Classification and Follow-Up Service.

The UL Classification Mark includes: UL in a circle: with the word "CLASSIFIED"  (as shown); a control number (may be alphanumeric) assigned by UL; a statement to indicate the extent of UL's evaluation of the product; and the product category name (product identity) as indicated in the appropriate UL Directory.

Look for the UL Classification Mark on the product.

William R. Carney, Director, North American Certification Programs
UL LLC

Any Information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at www.ul.com/contactus





Quality – Service – Commitment – Delivered.

PO Box 300
700 Goldman Drive
Cream Ridge, NJ 08514

609 758 0800
fax 609 758 1163
engg@sigmaco.com

July 26, 2019

Certification – DOMESTIC WEDGE ACTION RESTRAINT FOR PVC PIPE - Buy America/n

SIGMA Corporation certifies that the above material as manufactured in Pell City, AL comply with the requirements set forth in the specifications listed below, mandating the use of iron and steel products manufactured in the United States of America.

- Buy America: Federal Highway Administration (FHWA), 23 U.S.C Section 313 & 23 C.F.R & 635.410
- Buy America: Federal Railroad Administration (FRA), 49 U.S.C. Chapter 244: Section 24405
- Buy America: Federal Transit Administration (FTA), 49 U.S.C. & 5323 (j)49 C.F.R. Part 661
- Buy American: American Recovery and Reinvestment Act of 2009 (ARRA), Section 1605
- Buy American: Federal Aviation Administration (FAA), 49 USC & 50101
- Consolidated Appropriation Act 2014, Public Law 113-76: Section 436, American Iron and Steel (AIS) for CWSRF and DWSRF
- Domestic Buying Preferences: National Railroad Passenger Corporation (AMTRK), 49 U.S.C. Section 24305

All components of the wedge action Restrainer Glands are manufactured of high strength ductile iron, in accordance with ASTM A 536, Grade 65-45-12 and all components of the domestic restraint including gland, wedges and actuating bolts are epoxy coated via an electro-coat (e-coat) process and is recommended to be used with AWWA C153 & AWWA C110 mechanical joint fittings. A red topcoat is added for identification purpose.

Domestic restraint is designed for use on PVC pipe conforming to AWWA C900 with outside pipe diameters equal to that of the ductile iron pipe and on steel pipe sizes 3" – 12" conforming to ASTM D2241 standard.

Gasket & T-bolt supplied with the restrainer conform to ANSI/AWWA C111/A21.11 and ANSI/AWWA C153/A21.53 and can be used with any standard mechanical joint bell.

Domestic restraint carries a water working pressure rating of 235 psi for DR18 C900 PVC, sizes 4" through 16", 305 psi for DR14 C900 PVC pipe with a minimum 2:1 safety factor, 200 psi for SDR21 & 160 psi for SDR26 PVC as per ASTM D2241 for sizes 3" – 12".

For any further information please e-mail us at engg@sigmaco.com or call us at (609) 758-0800.

Best regards,

Satheesh Manicka Chandrasekaran
Engineer – Pipe Restraint Products
Sigma Corporation, NJ



Product Datasheet

Resicoat® R4-ES
for Electrostatic Spray Application on Preheated Surfaces
Code: HGF17R Rust Red

**Product
Description**

Resicoat® R4 is a high quality thermosetting epoxy powder coating for the corrosion protection of valves and fittings, manufactured from cast iron or steel. The powder coating is applied in one layer on a preheated surface by electrostatic spray application. Typical film thickness achieved is in the range of 10 – 20 mils (250 – 500 µm). The resultant thermoset epoxy has a high mechanical resistance with excellent electrical insulation properties. Drinking water approvals are available to confirm the coatings suitability, as a hygienic and environmental friendly coating. The outstanding adhesion of Resicoat R4® epoxy powders to the metal substrate provides long term protection of the coated component. It ensures a reliable conservation to the function and value of the parts for the common water and gas distribution network. The applicator of Resicoat® R4 benefits from a modern and environmentally friendly process. It is possible to overcoat Resicoat® R4 with polyester powder and liquid coatings to achieve UV protection.

**Powder
Properties**

	Typical value	Method
Binder System	Epoxy	
Density	1.30 – 1.40 g/cm³	ISO 8130-2
Gel time at 392 °F (200 °C)	30 – 50 sec.	modified ISO 8130-6

Particle size

distribution

D
1
0
=
1
5
-
2
5
µ
m
D
9
0
=
1
3
5
-
1
6
0
µ
m

Coverage at 1.0 mil	141.6 ft ² / lb	Malvern
Storage stability	6 months at ≤ 74 °F (23 °C)	ISO 8130-1
Safety precautions	see Material Safety Datasheet (MSDS)	

Application Data	Preheating temperature object	392 – 428 °F (200 – 220 °C) object temperature
	Post cure conditions object	The coating is self curing, if the wall thickness of the steel/cast iron is greater than 8 mm. If the wall thickness of the steel/cast iron is less than 8 mm, additional curing of 3 to 8 minutes at 392 °F (200 °C) object temperature is required.

Coating Process		Pre-cleaning The surface must be free of oil, grease, salt, and other impurities.
	1.	
	2. Blasting	Molding sand, rust and sharp edges must be removed with angular steel grit. The graphite from the cast iron must be removed from the blasting material according NACE No.2 / SSPC-10 / Sa 2.5. Recommended anchor profile of ≥ 60 µm should be stored max. 4 hours before pre-heating (dust-free and dry).
	3. Pre-heating	This form of heating produces a uniform, defined temperature in the component. Any oxidation should be avoided.
	4. Coating application	Immediately after preheating, the coating process starts without losing any object temperature. The coating is done in the shortest possible time in a single pass with no interruption.

**Coating
Process
(continued)
5.**

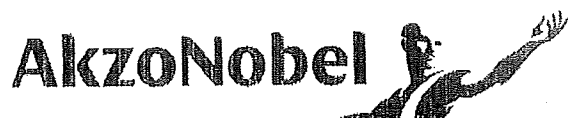
Typical value

Method

Coating cure Curing is achieved by the heat contained in the object. If the heating capacity of the work piece is sufficient. To confirm fully curing, MIBK is dropped for 30 sec. on the film surface with no visible change.

**Material
Properties**

Color	rust red	
Recommended film thickness	10 – 14 mils (250 – 350 µm)	
Flow	smooth	
Gloss at 60° angle	80 – 100 units	DIN 67530
Cross cut	Gt 0	DIN EN ISO 2409
Impact resistance	> 5 Joule	DIN 30677-2
	> 2.26 Joule	ASTM D2794
	> 18 Joule	20 inch pound
Abrasion resistance	< 40 mg	ASTM G14 modified
		1/8 in (3.2 mm) steel plate
Dielectric strength	≥ 30 kV/mm	ASTM D4060
Volume resistivity (DC voltage)	1.1 x 10 ¹⁵	CS-17, 1000 g, 1000 cycles
Indentation resistance		IEC 60243-1
48 h, 158 °F (70 °C)	< 30 %	ASTM D257
24 h, 140 °F (60 °C)	< 10 %	
Compressive strength	> 100 MPa	DIN 30677-2/ EN 14901
Shear adhesion	> 35 MPa	ASTM G17
Heat aging in air (90 d), water	fulfilled	ASTM D695
Thermal stability under heat aging	pass	ASTM D1002
Weathering (Xenon test), 100 d	pass	EN 14901
Hardness (Buchholz)	≥ 90	AS/NZS 4158:2003
	2H	ASTM D2596-99
Strain polarization	pass	ISO 2815
Cathodic disbonding		ASTM D3363
30 d, 73 °F (23 °C)	≤ 10 mm	WIS 4-52-01
Hot water immersion	pass	
90 d, 158 °F (70 °C)		DIN 30677-2
Adhesion after 7 d, 194 °F (90 °C) water	≥ 16 MPa	AWWA C550-05
Disinfectant resistance	no change of surface,	ISO 4624, GSK
according DVGW work sheet W 291	no chalking	
(chlorine dioxide, sodium hypochlorite)	The following migration test with demineralised water showed no defects of the film. The concentration of the examined parameters in the tested water were below the limits of the epoxy guideline for ancillaries for pipes DN > 300 mm (in main trunks).	after 10 test stages à 15 h



	Typical value	Method
Material Properties (Continued)	Water condensation test (Cleveland test), 21 d	no change ASTM D4585
	Salt spray resistance, 2000 h	no blistering, no loss of adhesion BS 3900:F4
	Salt spray test, 4000 h	no under-rusting on the cut ISO 9227 (steel substrate)
	Water absorption, 100 d, 73 °F (23 °C)	pass AS/NZS 3862
	Chemical resistance	fulfilled EN 598
Conformities	AWWA C550-05 ISO 12944-2, table 1 (standard does not include powder coating systems) It is assumed that Resicoat® R4 is suitable to meet the high atmospheric corrosivity category C4 (typically in industrial areas and coastal areas with moderate salinity) and the very high atmospheric-corrosivity-categories C5-I (industrial) and C5-M (marine) if applied as a holiday-free coating at a film thickness > 400 µm. A sufficient film thickness is highly required to ensure good edge coverage. For gloss and color stability a UV-resistant polyester topcoat has to be applied.	
Approvals	Drinking water: US: ANSI/NSF 61 Drinking Water System Components – Health Effects, NSF UK: BS 6920, Approval No. 1112500, WRAS DE: UBA-Coatings Guideline, Approval no.: C- K-235947-13, Hygiene Institut DE: DVGW directive work sheet W 270, Approval no. W-211795-11, Hygiene Institut	
Date of issue:	November 4, 2014	
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Disclaimer: This Product Data Sheet is based on the present state of our knowledge and on current laws. The data referring to Powder Properties, Application Data and Physical Tests is based on lab based samples. Factors such as quality or condition of the substrate may have an effect on the use and application of the product. It remains the responsibility of the user to test thoroughly if the product is applicable for the intended use. The use of the product beyond our recommendation releases us from our responsibility, unless we have recommended the specific use in writing. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. We are not liable for any application-technological advice. The Product Data Sheet shall be updated from time to time. Please ensure you have the latest version before using the product. All products and Product Data Sheets are subject to our standard terms and conditions of sale (GCS). You can receive the latest copy of GCS via internet or our post address. Brand names mentioned in this Product Data Sheet are trademarks of or are licensed to the AkzoNobel group.

Resistance against chemical substances of Resicoat® R4 at room temperature

Acetic acid	10 %	2 years	no change
Ammonia	10 %	2 years	no change
Ammonia	36 %	1.5 years	no change
Antifrogen L	50 %	1 year	no change
Antifrogen N	50 %	1 year	no change
Benzol		1 month	no change
Bore oil		1 year	no change
Butanol		6 months	no change
Carbon tetra chloride		1 year	no change
Caustic soda solution	10 %	2 years	no change
Caustic soda solution	50 %	2 years	no change
Chlorine cleanser and disinfectant		1.5 years	no change
Citric acid		2 years	no change
Deicer Safeway KF HOT		1 year	no change
Deicer Safeway SF (solid)		1 year	no change
Deicer Safewing MP II 1951		1 year	no change
Dichromatic potassium	10 %	1 year	no change
Diesel		2 years	no change
Engine oil SAE 20		1 year	no change
Ethanol		1 year	no change
Ethyleneglycole		1 year	no change
Formaldehyde	37 %	6 months	no change
Formic acid	5 %	2 years	no change
Formic acid	10 %	1.5 years	no change
Glycerol		1 year	no change
Glysantin		1 year	no change
Hydrochloric acid	concentrated	1 week	no change
Hydrochloric acid	10 %	2 years	no change
Hydrochloric acid	25 %	1.5 years	no change
Hydrofluoric acid	1 %	1 day	no change
Hydrogen peroxide	3 %	1 year	no change
Hydrogen peroxide	10 %	1 year	faded

Lactic acid	10 %	1 week	no change
Methanol		1 week	no change
Methyl tert-butyl ether (MTBE)	100%	6 months	softening
Nitric acid	10 %	1.5 years	no change
Nitric acid	25 %	1 year	no change
Oxalic acid	5 %	6 months	no change
Palm oil	at 90° C	7 days	no change
Petrol		2 years	no change
Petroleum		1 year	no change
Phosphoric acid	10 %	2 years	no change
Phosphoric acid	50 %	2 years	no change
Potassium hydroxide	10 %	1 year	no change
Potassium hydroxide	25 %	1 year	no change
Potassium hydroxide	50 %	1 year	no change
Propanol		1 year	no change
Sea water		2 years	no change
Sodium acetate	10 %	1 year	no change
Sodium carbonate	20 %	1 year	no change
Sodium hypochlorite (15 % Cl ₂)		10 weeks	no change
Sodium chloride	2 %	1 year	no change
Sodium chloride	20 %	1 year	no change
Sodium formiate	10 %	1 year	no change
Suds	1 %	1 year	no change
Sulphuric acid	2 %	2 years	no change
Sulphuric acid	20 %	2 years	no change
Sulphuric acid	50 %	2 years	no change
Tartaric acid	5 %	1 year	no change
Toluol		1 year	no change
Turpentine oil		1 year	no change
Urea	10 %	1 year	no change
Urine		1 year	no change
Xylol		1 year	no change

Our printed literature and technical information Sheets as well as our advisory services are offered to facilitate and support decision-making processes. All specifications provided reflect the state of our knowledge at the time of print. Any technical data and measured values supplied have been tested for compliance with current applicable standards, if available. The information provided is not legally binding upon the party supplying such information.