

### PRODUCT PROFILE:

R200 is a fast setting Novolac epoxy coating, 100% solids and completely non-hazardous. R200 is the ultimate coating for repairs and rehabilitation for pipelines operating at maximum temperatures up to 200°C (392°F). This two-part, solvent free epoxy can easily achieve a dry film thickness of up to 40 mils with one pass. This product offers superior adhesion and abrasion resistance.

### PRODUCT APPLICATIONS:

- Girth welds, valves, fittings, bends, and odd shapes
- Rehabilitation and repair of pipelines, new pipelines, or any other metal substrate needing corrosion protection

### PRODUCT FEATURES AND BENEFITS:

- 100% Solids, Epoxy Novolac
- NO VOCs and NO ISOCYANATES
- Novolac Chemistry-designed for pipeline operating temperatures up to 200°C (392°F)
- Superior abrasion resistant properties
- R200 can be spray or hand applied-field work made easier
- Superior bonding to bare steel and FBE
- Excellent cathodic disbondment properties, adhesion, and flexibility

### PHYSICAL PROPERTIES

Property	Test Method
Specific gravity	ASTM D 3289-03
Compressive strength	ATSM C-109
Hardness	ASTM D-2240
Resistance to acids & alkalis	ASTM C-481
Thin film water absorption	ASTM D-570-98
Cubed water absorption after immersion	ASTM C 642-82
Dielectric strength (in oil)	ASTM D-149
Adhesion to: FBE Bare steel	ASTM D 4541 ASTM D-4541
Impact resistance	ASTM G-14-88
Flexibility	NACE RP-0394
Tabor abrasion CS-17 wheel	ASTM D-4060-95
Cathodic disbondment @ 28 days Temp 195°F	ASTM-G95

### PRODUCT GUIDE

Maximum operating temperature	320°F
Compatible line coatings	FBE, CTE
Mixing ration: By volume By weight	4 part A: 1 part B 100 part A : 15 part B
Surface profile	2.45-4.0 mils 63-101 microns
Surface preparation	SA 2 ½ , SSPC-10-near white, SSPC-SP5-white
Color	Gray / Maroon / White / Yellow
Single coat thickness: Manually applied Spray applied	40+ mils 40+ mils
Recoat Interval	15 min@45°F 10 min@70°F 7 min@100°F
Clean up	MEK

**CURE TIMES**

	45°F	70°F	100°F
Pot life	25 minutes	12 minutes	4 minutes
Gel time	30 minutes	15 minutes	12 minutes
Dry time	4 hours	1 hour	30 minutes
65 Shore D reading	3 hours	2 hours	30 minutes
80 Shore D reading	72 hours	6 hours	2 hours
Application temp range	38°F - 150°F		

**RECOMMENDED TIP SIZES**

Tip Size	Pipe Size (DN)	Flow Rates
331	To 12" (DN300)	19 tip=1.1L/min.
419/431	12"-16" (DN300-400)	31 tip=2.8 L/min.
519/531	16"-24" (DN400-600)	Note: fluid pressure at tip approx. 3,500psi
619/631	24"-48" (DN600-1200)	

**TYPICAL APPLICATION**

Theoretical Coverage Rates	425 mil-sq. ft./litre
	1605 mil-sq. ft./US gallon
	1.0 mm-m <sup>2</sup> /litre

**RECOMMENDED FILM THICKNESS:**

- Wet: up to 40 mils per coat
- Dry: up to 40 mils per coat

**APPLICATION GUIDE**

- Spray Grade: Plural component spray system-Tip size .027 - .037
- Brush Grade: Brush or Roller

**TEMPERATURE CONSIDERATIONS:**

If the surface to be coated is below 10°C (50°F), preheating of the substrate is recommended. Preheat temperatures should not exceed 93°C (200°F) prior to the application.

**STORAGE AND HANDLING:**

For optimum performance, store R-200 products in a dry, well ventilated area. Maintain products in original packaging and sealed until just before use. Avoid exposure to direct sunlight, rain, snow, dust, or other adverse environmental conditions or contaminants.

## ORDERING INFORMATION

For additional information, prices, or to place an order, please contact your ErgonArmor sales representative. If you do not know the name of your sales representative, call 877-98ARMOR.

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