

## POWERCRETE<sup>®</sup> R-95

### **Product Information**

Product description: Powercrete<sup>®</sup> R-95 is a high-build solvent free novolac epoxy coating designed for protecting new line pipes and pipeline rehabilitation projects that operates at temperatures up to 95°C (203°F). Powercrete<sup>®</sup> R-95 can be used for extra protection on top of FBE mainline coatings or as a DTM (drirect to metal) coating when an increased temperature-and chemical resistance is required.

Features:

- 100% Solids Novolac Epoxy
- no VOC
- high temperature and chemical resistance
- · Excellent adhesion to FBE and abrasive blasted steel
- Excellent cathodic disbondment characteristics

**Powercrete**<sup>®</sup>

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- Excellent wastewater and sulphuric acid resistance
- Suitable for pipeline operating temperatures to 95°C (203°F)
- Can be sprayed and hand applied up to 1000micron (40mils) in one multi-pass layer

#### Application examples

Application: coating system for pipe bends, fittings, valves, girth welds, field joints, directional drilling, buried tanks and vessels, Offshore risers, piles, waste water pipes, sulphur hoppers and chutes and other steel structures in need of protection that operates temperatures up to 95°C (203°F).

Product Performance (processing under laboratory conditions)			
	Test Method	Typical Value	
Cathodic Disbondment	ASTM G8 (25°C)	3 mm	
	(77°F) 30 days		
	ASTM G95 (95°C)	8mm	
	(203°F) 30 days		
Flexibility	NACE RP-0394	0.27/PD at 23°C/73°F	
Impact Resistance	ASTM-G14	>44.25in/lb/>5Nm/>5J	
		at 40mils/1000micron	
Adhesion to FBE	ASTM D4541	3000psi/20MPa	
Adhesion to Steel	ASTM D4541	3500psi/24MPa	
Adhesion to Steel, 90D	ASTM D4541	3130psi/21MPa	
HWI at 85°C (185°F)			
Abrasion Resistance	ASTM D4060	850 cycles a mil	
		(34 cycles/micron)	
Resistance to Acids	ASTM C581	Excellent	
and Alkalies			
Dielectric Strength	ASTM D149	690V/mil (27V/micron)	
Thin Film Water	ASTM D570	0.15% (24 hours)	
Absorption			
Hardness	ASTM D2240	85 Shore D	

General Product Information		
Colour	Grey	
Finish	Gloss	
Primer	Self-priming on FBE and DTM	
Dry Film Thickness	40mils (1000micron) for most applications	
Coverage Rate (theoretical)	40.8 sq.ft/USG at 40mils (1000micron)DFT. 1,00m <sup>2</sup> /l at 40mils (1000micron)DFT.	
Volume Solids	100%	
VOC Content	0 g/l	
Flash Point	154°C (309°F) mixed product	
Mixing Ratio	3.6:1 (A to B in volume) 100:16 (A to B by weight)	
Potlife	14 minutes at 25°C (77°F)	

Application Instruction: Surface Preparation Steel			
General	The area to be coated has to be clean, dry and free from oil, grease and dust. All contamination that could interfere with the adhesion of the coating has to be removed according to SSPC- SP1.		
Preventing condensation on the substrate	Prior and during the surface preparation, the temperature of the substrate(s) must be at least $5^{\circ}F$ (3°C) above the dew point.		
Abrasive Blasting	Minimum Sa21/2 (SSPC-SP10/ NACE2) .		
Recommended Surface Profile	3-4mils (75-100micron) angular profile.		
Application Instru	ction: Surface Preparation FBE		
General	The area to be coated has to be clean, dry and free from oil, grease and dust. All contamination that could interfere with the adhesion of the coating has to be removed according to SSPC- SP1.		
Preventing condensation on the substrate	Prior and during the surface preparation, the temperature of the substrate(s) must be at least $5^{\circ}F(3^{\circ}C)$ above the dew point.		
Abrasive Blasting	Sa1 (SSPC-SP7/NACE4, sweep-blasting for optimum performance.		

## Surface Profile

Recommended

Application Safety General

Read the Product Data Sheet and follow the caution statements on the Material Safety Data Sheet . Personnel who will come into contact with the product should be using appropriate protection equipment. Follow national safety guidelines.

Minimum 2mils (50micron) angular profile.

Application	n Conditions			
	Product	Surface	Ambient	Humidity
Optimum	130°F	70-90°F	70-90°F	25-50%
	(55°C)	(21-32°C)	(21-32°C)	
Minimum	122°F	50°F	-20°F	0%
	(50°C)	(10°C)*	(-30°C)	
Maximum	140°F	200°F	120°F	85%
	(60°C)	(93°C)	(49°C)	

\* 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 and during the application, the temperature of the substrate must be at least 3°C above the dew point.

Application Instru	ction: Plural Component Spray
Step 1	Mix the Part A and B until uniform in consistency.
Step 2	Use only heated plural component Airless equipment capable to maintain a 3.6:1 ratio in volume and 1.25 Gallon/4,73 Liter per minute output, with heated drums, insulated (heated) hoses and minimum 193bar (2800psi.) fluid pressure for Part A and 207bar (3000psi) for Part B. Use Binks 1M Airless spray-gun or equal with preferably changeable spray tips. Consult Powercrete <sup>®</sup> for specific information.
Step 3	Part A must be heated up and maintained to a temperature of 60-65°C (140-150°F) and Part B must be heated up and maintained at 38-49°C (100-120°F).
Step 4	Apply Powercrete <sup>®</sup> R-95 in the recommended DFT. Use a WFT gauge to check. Do not dilute the product.

DISCLAIMER: Seal For Life Industries warrants that the product(s) represented within conform(s) to its/their chemical and physical description and is appropriate for the use as stated on the respective technical data sheet when used in compliance with Seal For Life Industries written instructions. Since many installation factors are beyond the control of Seal For Life Industries, the user is obligated to determine the suitability of the products for the intended use and assume all risks and liabilities in connection herewith. Seal For Life Industries many earlies and control of Seal For Life Industries many enter and vertice of the intended use and assume all respective technical data sheet(s) should be used as a guide and is subject to change without notice. This document supersedes all previous revisions. Please see revision date on the left. Powercrete<sup>®</sup> is a registered trademark of Seal For Life Industries makes and constituent on the respective technical data sheet(s) should be used as a guide and is subject to change without notice. This document supersedes all previous revisions. Please see revision date on the left. Powercrete<sup>®</sup> is a registered trademark of Seal For Life Industries makes and constituent on the respective technical data sheet(s) should be used as a guide and is subject to change without notice.

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Curing Times at 2	5°C (77°E)		Additional Inform	ation
Gel Time:	31 minutes		Documentation	Application instructions and other
			Decamontation	documentation can be obtained by contacting
Dry time:	1.3 hours	P. J		our head office, from our local distributor or by
65 shore D:	2.2 hours (ready for Ho	liday test)		sending email to info@sealforlife.com
75 shore D:	5.0 hours (full cure)		Certified staff	Application of the described coating system
	40 mils (1000micron) DF			should be carried out and inspected by certified
21 C (70 F) IS 34-60m	ninutes and 4-7 minutes at	65 C (150 F).	Specification info	Personnel. Product Performance values shown are not to
			Specification into	be interpreted as product specification or PQT
Inspection and Re				values. Consult Powercrete <sup>®</sup> .
Inspection		ist be visually inspected		
	for any defects, such as			
	fisheyes, blistering, pinh			
	possible contaminants. detection must generate			
	SP0188.			
Coating Thickness	The coating thickness (I	DFT) must be within the	1	
		se calibrated equipment		
	and measure according			
	specified standard.			
Repair	Pinholes/Holidays must	be located and repaired		
		Consult Powercrete <sup>®</sup> for		
	specific information. Re	test the repaired area.	J	
			1	
Cleaning				
Cleanup	Use Acetone or MEK.		J	
Hondling			1	
Handling General	Transport and stacking	ia naasihla oftar full ouro		
General	of the coating and gene	is possible after full cure		
	(NACE SP0188). This ti	me can be reduced by		
	increasing the curing ter	mperature. Consult		
	Powercrete <sup>®</sup> for specific	information.		
			1	
General Order Info	ormation			
Product	Powercrete <sup>®</sup> R-95.			
	Product dimensions and	d contents:		
Drum				
Part A		635.71 lb/288,36 kg)		
Part B	47.55 gal/180,00 l (	408.33 lb/185,22 kg)		
Pail				
Part A	3.56 gal/13,50 l (	52.99 lb/24,04 kg)		
Part B		34.01 lb/15,43 kg)		
Kit Options		7.23 lb/3,28 kg)		
		3.61lb/1,64 kg)		
	0.13 gal/0,5 l (	1.8 lb/0,82 kg)		
Cartridges	On request.			
Cartridges	On request.			
Handling	Handle with some Kasa	containara unright		
Handling	Handle with care. Keep			
Storage	Store indoor, clean and sunlight in a cool place			
	85°F). Keep from freezi			
	in the original unopened			

LOCAL DISTRIBUTOR / REPRESENTATIVE:





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in the original unopened containers.

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Anodeflex<sup>®</sup> - Stopaq<sup>®</sup> - Polyken<sup>®</sup> - Covalence<sup>®</sup> - Powercrete<sup>®</sup> - Sealtaq<sup>®</sup> - Blockr<sup>®</sup> - Easy-Qote<sup>®</sup>

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