



## **Plasgard** Technical Data Sheet

### DESCRIPTION

Plasgard 410 Epoxy is a two part, 100% solids, high temperature coating designed to provide protection against corrosion on pipelines with service temperatures up to 120°C (248°F). Plasgard 410 can be used as a below grade or under water standalone coating. The Plasgard 410 was designed to provide superior adhesion to wet surfaces and, fresh and salt water submerged surfaces. Plasgard 410 is a fast curing epoxy allowing for backfill in 4-5 hours at 23°C and 50% RH.

### SUBSTRATE COMPATIBILITY

Steel, Stainless Steel, Ductile Iron, other metals, FBE

### RECOMMENDED USE

Ideal for protecting girth welds, fittings, flanges, valves, and all types of piping and metal structures.

### SURFACE PREPARATION

SSPC SP-10/NACE No. 2/ SA 2 1/2 Near-White Blast Cleaning  
2-4 mil surface profile

### PRIMER

None Required

### REFERENCE

Plasgard 410 meets all of the performance criteria listed in the most recent revisions of:

NACE RP0105  
ANSI/AWWA C210

### SAFETY

Refer to Material Safety Data Sheet: MSDS-PLASGARD-410-RESIN; MSDS-PLASGARD-410-HARDENER

### APPLICATION

Refer to Application Guidelines: AG-PLASGARD-EPOXIES

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## TYPICAL DATA

Property	Metric	US Customary	Test Method
Color	Red or Black	Red or Black	
Coating Thickness, per coat (2 coat minimum)	250 µm minimum	10 mil minimum	
Estimated Coverage Rate	4 sqm per litre @ 250 µm	160 sqft/gal @ 10 mil	
VOC Content	0 g/l	0 lb/gal	
Pot Life @ 70°F (21°C), 50% RH	40 minutes	40 minutes	
Time to Backfill @ 70°F (21°C), 50% RH	3-4 Hours	3-4 Hours	
Cathodic Disbondment, 30 days	<10 mm radial	<0.4 in <sup>2</sup>	ASTM G8
Pull Off Adhesion to Steel	> 10.4 MPa	>1500 psi	ASTM D4541 Type II
Shore D Hardness	85-90	85-90	ASTM D2240
Dielectric Strength	Exceeds 10 KV (500 µm )	Exceeds 10 kV (20 mil)	ASTM D149
Holiday Detection Setting	5500 V (500 µm )	5500 V (20 mil)	NACE RP0274
Water Absorption	<0.5%	<0.5%	ASTM D570
Water Vapor Transmission Rate	<0.05 g/(h*m <sup>2</sup> ) (635 µm)	<0.01 g/(24h*100 in <sup>2</sup> ) (25 mil)	ASTM E96 Procedure B
Chemical Resistance	Pass	Pass	ASTM G20
Application Temperature Range	5°C to 50°C	40°F to 122°F	
Service Temperature Range	Up to 120°C	up to 248°F	

## ORDERING INFORMATION

	Kit Size	Kits Per Case
Brush Application	0.75 litre	8
Spray Application	5 litre	4