MORGAN MATERIALS
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Powder Coating 2000

-2000 thermosetting epoxy coating system is engineered to protect pipelines from corrosion in the most demanding operating environments. Designed for application on all pipe sizes and wall thicknesses.

Performance Properties: 2000 Coating

Property	Test	Performance
Cathodic disbondment	24 hours, 3.5 volt, 65°C 28 days, 1.5 volt, 20°C 28 days, 1.5 volt, 65°C	2.1 mm average 2.5 mm average 3.9 mm average
(of strained coating)	28 days, 1.5 volt, 20°C, 2.5° per pipe diameter length	No cracking
Porosity	Cross-section Interface	1 rating 1 rating
Flexibility	Fixed mandrel bend, -30°C	Passed 3° per pipe diameter length
Impact resistance	16 mm ball, 1.5 joules, -30°C	No holidays
Hot water resistance	24 hours, 75°C 28 days, 75°C	1 rating 1 rating

Product Properties: 2000 Coating

Fast Gel	Slow Gel	Long Gel
Order Number: 720G020F	Order Number: 720G020S	Order Number: 720G020L
Physical Properties:		
Chemical Type: epoxy		
Specific Gravity: 1.43 ± 0.05 (Powder) 1.36 ± 0.05 (Film)		
Theoretical Coverage: 134.6 sq ft/lb/mil (0.6993 sq m/kg/mm) (Powder) Theoretical Coverage: 141.4 sq ft/lb/mil (0.7353 sq m/kg/mm) (Film)		
Gel Time: 8.5 seconds ± 20% @ 204°C /400°F	Gel Time: 18.4 seconds ± 20% @ 204°C/400°F	Gel Time: 25 seconds ± 20% @ 204°C/400°F
Cure Time: 45 seconds @ 232°C/450°F	Cure Time: 90 seconds @ 232°C/450°F	Cure Time: 150 seconds @ 232°C/450°F
Color: Green		
Shelf Life: 12 months if stored at @ 27°C/80°F and 50% relative humidity		
Operating Temperature Range: -73°C/-100°F to 110°C/230°F*		

Advantages of 2000 Coating

- Superior adhesion to the substrate; offers excellent cathodic disbondment resistance in a wide range of environments.
- Outstanding resistance to cracking, cold flow and softening over a wide temperature range.
- Exceptional chemical resistance, allowing coated pipe to endure exposure to a wide range of chemicals including aliphatic hydrocarbons, aqueous salts, and caustics.
- Excellent flexibility to meet the most demanding field bending requirements including extreme temperatures and "reel barge" pipe laying.
- Well-controlled application process in a coating plant.
- Can also be used as the primer coating in a three-layer coating system.