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Pipeclad® 2000 Fusion-Bonded Epoxy

EXTERIOR PROTECTION

Delivers superior exterior corrosion protection of underground pipelines

The Pipeclad 2000 thermosetting epoxy coating system is engineered to protect pipelines from corrosion in the most demanding operating environments. Designed for application on a wide variety of pipe sizes and wall thicknesses, Valspar coatings assure consistent field performance.

By choosing Pipeclad 2000 coating, you are choosing proven experience. Valspar has built its reputation as a global leader with more than 200 years of coating design experience and corrosion protection expertise for a variety of industries.

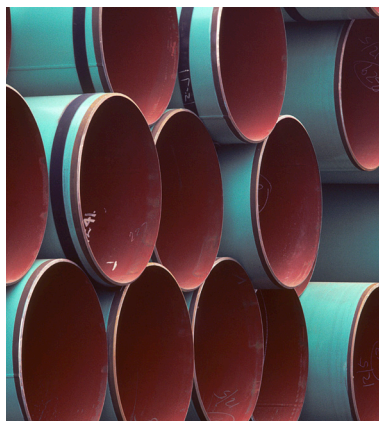
Pipeclad 2000 coating is part of Valspar's pipeline product family that has delivered excellent performance in the most demanding real-world applications for more than half a century.

50-plus years of proven corrosion protection performance with thousands of miles of pipelines operating in a broad range of service conditions.



Advantages of Pipeclad 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.



Application of Pipeclad 2000 Coating
With unmatched technical service, we partner with coaters to ensure optimum application results on every job. Pipeclad 2000 coating delivers:

- ideal application characteristics that support high-speed production rates for all pipe diameters,
- proven batch-to-batch consistency and quality, and
- proper reactivity characteristics for a broad range of pipe diameters, wall thicknesses and application conditions.

Performance Properties: Pipeclad 2000 Coating CAN/CSA Z245.20

Property	Test	Performance
Cathodic disbondment (of strained coating)	24 hours, 3.5 volt, 65°C	2.1 mm average
	28 days, 1.5 volt, 20°C	2.5 mm average
	28 days, 1.5 volt, 65°C	3.9 mm average
	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	1 rating
	28 days, 75°C	1 rating

Product Properties: Pipeclad 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*		

*Based on properly applied and cured coating. Actual results may vary due to coating thickness, soil conditions and moisture levels. Consult your local Valspar representative for recommendations.

Application: Preheat substrate uniformly to 232–253°C/450–488°F. Apply by electrostatic spray or fluidized bed dipping. Recommended film thickness is 12–16 mils/305–406 microns. Allow to cure by residual heat before quench.

Surface Preparation: Remove all surface contamination before abrasive blasting. Blast clean using steel grit to SSPC SP-10 near-white metal with a minimum surface profile of 2 mils/51 microns.

Coating Repair: Pipe with excessive coating defects should be completely reblasted to near-white finish and recoated. Pipe requiring limited coating repair — not to exceed a total area

of 36 square inches/0.0232 square meters — should be repaired by the Pipeclad patching system. The patching system should be mixed and applied in accordance with directions contained in the Valspar data sheet. Patch sticks can be used if agreed to by the pipe coating applicator and pipe owner.

Storage and Handling: This product should be stored below 27°C/80°F and 50% relative humidity. If it is stored below the application room temperature, allow the product to warm to room temperature before opening. Refer to the material safety data sheet for more information.

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