

RAPID 4500

Technical Data Sheet

Moisture Tolerant Pipeline Liquid Coating

PROPERTIES	VALUE
Solids Content	100%
Base Component - (Unmixed) @ 77°F (25°C)	
Viscosity	80,000 cps
Color	White
Hardener - (Unmixed) @ 77°F (25°C)	
Viscosity	16,500 cps
Color	Black
Mixed Material - (Mixed) @ 77°F (25°C)	
Viscosity	60,000 cps
Color	Gray
Mixing Ratio (A/B) by Volume	2 Parts Base:1 Part Hardener
Cure Times	
Pot Life @ 77°F (25°C)	10 - 12 Minutes
Pot Life @ 97°F (36°C)	7 - 8 Minutes
Handling Time @ 50°F (10°C)	12 Hours
Handling Time @ 72°F (22°C)	6 Hours
Handling Time @ 117°F (47°C)	2 Hours
Shore D Hardness	70 minimum
Theoretical Coverage	14 ft ² /30 mils/liter (1,301 m ² /762 microns/liter)
Actual Coverage	6 - 8 ft ² /30 mils/liter (0.5574 - 0.7432 sq. m./liter)
Thickness	
Minimum/Maximum	20/70 mils (508/1778 microns)
Recommended	30 mils (762 microns)
Holiday Detection	Refer to NACE SPO188
Cathodic Disbondment (28 days at 150°F (65°C) @ -1.5 V (CSA Z245.20-14)	
Dry Substrate	8.2 mm (8,200 microns)
Damp Substrate	6.9 mm (6,900 microns)
Wet Substrate	6.1 mm (6,100 microns)
Water absorption, % weight gain, RT after 5 days	1.8%
Gouge Resistance	19 mils (482 microns)
Tabor Abrasion (1,000 cycles, CS-17 wheel, 1 kg load)	121 mg
Impact (CSA Z245.20-14) Temp. -22°F (-30°C) @ 1.5 joules	Pass – no holiday
Flexibility (CSA Z245.20-14) Temp. -22°F (-30°C) @ .45"/PD	Pass – no holiday
Pull-Off Adhesion (RT)	
Dry Substrate	3153 psi (21.74 MPa)
Damp Substrate	2363 psi (16.29 MPa)
Wet Substrate	2495 psi (17.2 MPa)
Water absorption, % weight gain, RT after 5 days	1.8%
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Adhesion to Steel Substrate ISO 21809-3 Annex C X-Cut Temp 74°F (23°C)	Group 1
Adhesion to Steel Substrate ISO 21809-3 Annex C X-Cut Temp 150°F - 28 Day Hot Water Soak	Group 1
Adhesion to FBE Coating ISO 21809-3 Annex C X-Cut Temp 74°F (23°C)	Group 1
Service Temperature	-40°F (-40°C) to 150°F (65°C)
Application Temperature	32°F (0°C) to 150°F (65°C)

STORAGE: Minimum 24 months when stored in original containers between 41°F (5°C) to 100°F (36°C). On job site where temperatures are below 60°F (16°C) product should be kept warm to mix properly.

CLEANING: Clean equipment with MEK or equivalent solvent cleaner.

HEALTH AND SAFETY: Wear protective clothing and ensure adequate ventilation. Avoid contact with skin and eyes. See safety data sheet for further information.

PACKAGING: 1 liter kit standard.

Other unit sizes are available upon request.