

3M Scotchkote™ 165HB Urethane Coating

Category : Polymer , Thermoset

Material Notes:

3M Scotchkote Urethane Coating 165HB is a two component 100% solids urethane coating used for the internal and external protection of steel and concrete pipes, tanks, and vessels. It can be used in many different immersion conditions, including sea, foul and raw water; also in chemically polluted, marine or underground environments. Scotchkote urethane coating 165HB is specifically designed for plural feed hot airless spray application. As such it permits single coat applications of between 0.5 mm and 2 mm dft. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Scotchkote-165HB-Urethane-Coating.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	
Solids Content	100 %	100 %	
Volatile Organic Compounds (VOC) Content	0.00 g/l	0.00 g/l	
Water Absorption	0.26 %	0.26 %	24 hrs; ASTM D570
	1.19 %	1.19 %	21 days; ASTM D570
Thickness	1020 microns	40.0 mil	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	83	83	ASTM D2240
Tensile Strength at Break	14.3 MPa	2070 psi	ASTM D638
Elongation at Break	24 %	24 %	ASTM D638
Impact Test	7.00 J	5.16 ft-lb	1/4" steel plate; ASTM G14 (modified)
Abrasion	98	98	[mg] loss per 1000 cycles; ASTM D4060

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	60.0 °C	140 °F	
Minimum Service Temperature, Air	0.000 °C	32.0 °F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	19.7 kV/mm	500 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	180 min	3.00 hour	Touch Dry
	360 min	6.00 hour	Hard Dry
	10100 min	168 hour	Full Cure
Shelf Life	24.0 Month	24.0 Month	

Descriptive Properties	Value	Comments
Appearance	Gray	

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