

3M Scotchkote™ 162HB Epoxy Coating

Category : Polymer , Thermoset , Epoxy

Material Notes:

3M Scotchkote Epoxy Coating 163HB has been specifically developed as a 100% solids lining for the internals of pipes, tanks, vessels and other equipment in contact with fresh water, sea water, raw water, and effluent. The product can also be used on externals of pipes where an abrasion-resistant system is required. This material is designed for application in a single high build coat of up to 1mm, by plural feed hot airless spray and can be used on both steel and concrete surfaces. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Scotchkote-162HB-Epoxy-Coating.php

Physical Properties	Metric	English	Comments
Density	1.57 g/cc	0.0567 lb/in ³	
Solids Content	100 %	100 %	
Volatile Organic Compounds (VOC) Content	6.5 g/l	6.5 g/l	
Water Absorption	0.72 %	0.72 %	21 days; ASTM D570
Water Vapor Transmission	1.20 g/m ² /day	0.0773 g/100 in ² /day	ASTM D1653
Oxygen Transmission Rate	0.947 cc/m ² /day	0.0610 cc/100 in ² /day	ASTM D3958
Thickness	508 microns	20.0 mil	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	82	82	ASTM D2240
Tensile Strength at Break	24.0 MPa	3480 psi	ASTM D638
Elongation at Break	1.4 %	1.4 %	ASTM D638
Flexural Strength	52.0 MPa	7540 psi	ASTM D790
Impact Test	8.00 J	5.90 ft-lb	1/8" steel plate; ASTM G14 (modified)
Abrasion	105	105	[mg] CS-17, 1000 cycles; ASTM D4060

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	26.0 °C	78.8 °F	
	56.0 °C	133 °F	onset

Electrical Properties	Metric	English	Comments
Dielectric Strength	15.7 kV/mm	400 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	360 min	6.00 hour	Touch Dry
	960 min	16.0 hour	Hard Dry
	10100 min	168 hour	Full Cure

Descriptive Properties	Value	Comments
Appearance	Gray and Red Oxide	
Pencil Hardness	2H	ASTM D3363

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