

3M 32665 Green Heavy Duty Performance Coating - Part B

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE)

Material Notes:

3M™ HD (Heavy Duty) Performance Coating is 100% solids elastomeric lining especially developed for high abrasion and tear resistance with thick build up characteristics. It has good durability and adhesion to metal, fiberglass, aluminum, wood (plywood, OSB, etc.), concrete and masonry. It is a two component 1:1 by volume system with adhesion enhancement chemical complexes. The protective coating can be applied up to 500mil thick and offers an ultra-fast cure that speeds production in an OEM setting. This aromatic formulation displays excellent chemical and environmental resistance while reducing the moisture problem that causes bubbling. It also offers high elongation and flexibility that produces high impact resistance. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-32665-Green-Heavy-Duty-Performance-Coating-Part-B.php

Physical Properties	Metric	English	Comments
Density	1.01 - 1.08 g/cc	0.0365 - 0.0390 lb/in ³	
Solids Content	100 %	100 %	
Water Absorption	<= 1.78 %	<= 1.78 %	ASTM D570
Brookfield Viscosity	150 - 1250 cP	150 - 1250 cP	RVT Model, Spindle #3 @ 20 rpm

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	54 - 60	54 - 60	ASTM D2240
Tensile Strength at Break	12.4 - 15.2 MPa	1800 - 2200 psi	ASTM 638-01
Elongation at Break	93 %	93 %	ASTM 638-01
Tear Strength	49.9 - 58.6 kN/m	285 - 335 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	35 - 40	35 - 40	ASTM D40695
Tangent Modulus	110 - 124 MPa	16000 - 18000 psi	Tangent; ASTM 638-01

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	93.0 °C	199 °F	
Minimum Service Temperature, Air	-29.0 °C	-20.2 °F	
Flash Point	93.0 °C	199 °F	

Processing Properties	Metric	English	Comments
Cure Time	60.0 - 120 min	1.00 - 2.00 hour	light use

Processing Properties	Metric	English	Comments
Shelf Life	12.0 Month @Temperature 21.0 - 32.0 °C	12.0 Month @Temperature 69.8 - 89.6 °F	

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