

Lord Adhesives Chemglaze® M331 Elastomeric Polyurethane

Category : Polymer , Thermoset , Polyurethane, TS , Thermoset Polyurethane, Elastomer, Unreinforced , Rubber or Thermoset Elastomer (TSE)

Material Notes:

Chemglaze® M331 is a two package, ASTM D-16 Type IV elastomeric polyurethane coating. Cured films produced from this coating are tough, flexible, and resistant to erosion, abrasion, and impact. These films provide excellent tensile and elongation properties, and prevent corrosion of metal substrates in aggressive environments. Basic Uses Chemglaze elastomeric polyurethane coatings function especially well in abrasive environments. With their inherent flexibility, corrosion resistance and energy absorptive properties, these coatings are used in the railroad and mining industries to protect metallic substrates. Chemglaze elastomeric coatings accommodate thermal expansion and contraction as well as structural motion. These elastic properties make them useful in protecting spray applied polyurethane foam insulation on storage tanks and reactor vessel walls. These coating qualify under military rain erosion coating specification MIL-C-85322. All information provided by Lord.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lord-Adhesives-Chemglaze-M331-Elastomeric-Polyurethane.php

Physical Properties	Metric	English	Comments
Solids Content	7.5 %	7.5 %	M201; by volume
	9.0 %	9.0 %	M201; by weight
	52 %	52 %	Mixed; by volume
	56 %	56 %	Mixed; by weight
	67 %	67 %	M331; by volume
	73 %	73 %	M331; by weight
Volatile Organic Compounds (VOC) Content	420 g/l	420 g/l	
Brookfield Viscosity	0.89 cP @Temperature 25.0 °C	0.89 cP @Temperature 77.0 °F	Part B, M201; LVT, Spindle #4 @ 30rpm
	8500 cP @Temperature 25.0 °C	8500 cP @Temperature 77.0 °F	Part A, M331; LVT, Spindle #4 @ 30rpm

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	95	95	
Tensile Strength, Yield	34.5 MPa	5000 psi	ASTM D882-83, Method A
Elongation at Yield	500 %	500 %	ASTM D882-83, Method A
Taber Abrasion, mg/1000 Cycles			CS17 1000g/1000cycles; ASTM

Mechanical Properties	0.00 Metric	0.00 English	D4060 Comments
	60	60	H18 1000g/1000 cycles; ASTM D4060

Thermal Properties	Metric	English	Comments
Flash Point	33.9 Â°C	93.0 Â°F	Part A, M331; Setaflash
	43.3 Â°C	110 Â°F	Part B, M201; Setaflash

Processing Properties	Metric	English	Comments
Cure Time	15.0 - 30.0 min	0.250 - 0.500 hour	Set to Touch
	60.0 - 120 min	1.00 - 2.00 hour	Surface Dry
	240 - 360 min	4.00 - 6.00 hour	Dry Hard
Pot Life	120 min @Temperature 25.0 Â°C	120 min @Temperature 77.0 Â°F	50% relative humidity
Shelf Life	6.00 Month @Temperature 24.0 Â°C	6.00 Month @Temperature 75.2 Â°F	Part A, M331
	6.00 Month @Temperature 24.0 Â°C	6.00 Month @Temperature 75.2 Â°F	Part B, M201

Descriptive Properties	Value	Comments
Appearance	Black	Part A, M331
	Black	Mixed
	Yellow to Dark Amber	Part B, M201
Weight per Gallon (lbs)	7	Part B, M201
	8.4	Part A, M331

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