

Blue River Coatings Hydro-Gloss 2-Part Polyurethane Top Coat

Category : Polymer , Adhesive , Thermoset , Polyurethane, TS

Material Notes:

BLUE RIVER COATINGS HYDRO-GLOSS 2-PART POLYURETHANE TOPCOAT is a water dispersible polyisocyanate coating. HYDRO-GLOSS provides outstanding coverage, excellent durability, and ease of application as well as being a low VOC and EPA compliant coating. HYDRO-GLOSS offers superior adhesion and has film properties that rival most solvent based catalyzed polyurethane systems. Environmental Advantages:BLUE RIVER COATINGS HYDRO-GLOSS 2-PART POLYURETHANE TOPCOAT is considered non-hazardous by EPA definitions and does not contain lead or chromates. The solid and semi-solid sludge produced in spraying and clean up can be flocculated; dried and sent to a "Class B" landfill. Check with local and state regulations for proper handling. Characteristics:Excellent exterior durabilityNon-photochemically reactiveFull gloss – 92% at 60° glossometerAvailable in satin to gloss finishExcellent hardness/impact resistanceExcellent adhesion, mar, and abrasion resistanceCoating will not flash rust on clean, dry metalsCoatings can be applied in a wide range of temperature and humidity conditions without the use of retardersLinear flexibility is excellent on substrates such as Lexan, vinyl, and fiberglassExcellent retention of gloss in 1,000 hour QUV weatherometerWater is used for reductionExcellent performance on most plasticsWater is used for clean-upNon-HazardousWide range of colorsShelf life of 1 yearNon-FlammableMetallics can be formulatedUsesSteel, Steel DecksAluminumVinylFiberglassWood PlasticsCanvasInformation provided by Blue River Coatings

Order this product through the following link:

http://www.lookpolymers.com/polymer_Blue-River-Coatings-Hydro-Gloss-2-Part-Polyurethane-Top-Coat.php

Physical Properties	Metric	English	Comments
Specific Gravity	>= 1.00 g/cc	>= 1.00 g/cc	
Density	1.13 g/cc	0.0407 lb/in ³	
Solids Content	47 %	47 %	by weight
	50 %	50 %	by volume
Volatile Organic Compounds (VOC) Content	36 g/l	36 g/l	

Mechanical Properties	Metric	English	Comments
Impact Test	20.3 J	15.0 ft-lb	Forward and Reverse
Taber Abrasion, mg/1000 Cycles	100	100	CS17 wheel, 1000 g load

Thermal Properties	Metric	English	Comments
Boiling Point	171 °C	340 °F	
Flash Point	160 °C	320 °F	

Processing Properties	Metric	English	Comments
	10.0 min	0.167 hour	

Cure Time Processing Properties	Metric @Temperature 75.0 °C	English @Temperature 167 °F	Recoat at 50% humidity Comments
	30.0 min	0.500 hour	Dust Free, at 50% humidity
	@Temperature 75.0 °C	@Temperature 167 °F	
	180 min	3.00 hour	Dry to handle, at 50% humidity and 75°C
	@Temperature 75.0 °C	@Temperature 167 °F	
Shelf Life	12.0 Month	12.0 Month	

Descriptive Properties	Value	Comments
Evaporation Rate	Slower than ether	
Flexibility	1/8" conical mandrel	
Gloss Retention	>90%; 1000 hours QUV	
Pencil Hardness	4H	
Salt Spray	1000 hours	
Solvent Resistance	lacquer thinner, acetone, MEK, gasoline, xylene-100double rubs with saturated cloth.	
Theoretical Coverage	802 ft ² at 1 mil	
Vapor Density	Heavier than air	

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