

Blue River Coatings Hyfro-Flex II PIR (Heat Reflective) Polyurethane Top Coat

Category : Polymer , Adhesive , Thermoset , Polyurethane, TS

Material Notes:

BLUE RIVER COATINGS HYDRO-FLEX II PIR POLYURETHANE TOPCOAT is a high performance, heat reflective, single component water dispersible polyurethane. HYDRO-FLEX II PIR is formulated with heat reflective pigments and adhesion promoting additives to provide the option of painting vinyl and plastic substrates with dark colors that minimize heat gain. The product provides outstanding coverage, excellent durability and is easy to apply. HYDRO-FLEX II PIR is a low VOC and EPA compliant coating. Environmental Advantages:BLUE RIVER COATINGS HYDRO-FLEX II PIR 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 agencies for proper handling and disposal. Characteristics:Excellent adhesion on most plastic substrates to include vinyl, PVC and fiberglassExcellent exterior durabilityExcellent heat reflective propertiesExcellent hardness/impact resistanceExcellent mar and abrasion resistanceExcellent linear flexibilityNon-photochemically reactiveFull gloss-80-85% at 60° glossometerAvailable in satin to gloss finishCoatings can be applied in a wide range of temperature and humidity without the use of retardersWater is used for reductionWater is used for clean-upNon-HazardousAir dry or force curing preferredNo discoloration or loss of flexibility when oven baked (250°F for one hour)Wide range of colors to include metallicsShelf life of 1 yearSingle component product-unused paint can be returned to container Non-FlammableUsesFiberglassMetalRigid Vinyl Most Plastics Wood PVC Foam or Cellular PVCInformation provided by Blue River Coatings

Order this product through the following link:

http://www.lookpolymers.com/polymer_Blue-River-Coatings-Hyfro-Flex-II-PIR-Heat-Reflective-Polyurethane-Top-Coat.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	
Density	1.05 g/cc	0.0378 lb/in ³	
Solids Content	37 - 41 %	37 - 41 %	by volume
	40 - 44 %	40 - 44 %	by weight
Volatile Organic Compounds (VOC) Content	188 g/l	188 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	79.4 °C	175 °F	

Processing Properties	Metric	English	Comments
Cure Time	10.0 min	0.167 hour	Recoat, at 50% humidity
	@Temperature 75.0 °C	@Temperature 167 °F	
	19.8 min	0.330 hour	Dust Free, at 50% humidity
	@Temperature 75.0 °C	@Temperature 167 °F	
	45.0 min	0.750 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	
Pencil Hardness	HB Minimum	
Solvent Resistance	lacquer thinner, acetone, MEK, gasoline, xylene-50 double rubs with saturated cloth.	
Theoretical Coverage	665 ft ² at 1 mil	
Vapor Density	Heavier than air	

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