

## Blue River Coatings Hyfro-Flex Polyurethane Top Coat

Category : Polymer , Adhesive , Thermoset , Polyurethane, TS

### Material Notes:

BLUE RIVER COATINGS HYDRO-FLEX POLYURETHANE TOPCOAT is a water dispersible polyurethane. When the customer receives HYDRO-FLEX, it is already formed in the container, where as the solvent base type, the polyurethane is formed on the substrate. Therefore, once the paint is applied on the substrate, the film properties of HYDRO-FLEX rival that of other two component catalyzed systems. HYDRO-FLEX offers outstanding coverage, excellent durability, and ease of application as well as being a low VOC and EPA compliant coating.

**Environmental Advantages:**BLUE RIVER COATINGS HYDRO-FLEX 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-80-85% at 60o 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 without the use of retardersLinear flexibility is excellent on substrates such as Lexan, vinyl, and fiberglass Water is used for reductionExcellent performance on most plasticsWater is used for clean-upNon-HazardousAir dry or force curing preferredCan be baked dryNo discoloration or loss of flexibility when oven baked (250°F for one hour)Wide range of colors Shelf life of 1 yearUnused paint can be returned to containerNon-FlammableMetallics can be formulated UsesFiberglassSteelAluminum PlasticWoodPVCCanvasInformation provided by Blue River Coatings

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Blue-River-Coatings-Hyfro-Flex-Polyurethane-Top-Coat.php](http://www.lookpolymers.com/polymer_Blue-River-Coatings-Hyfro-Flex-Polyurethane-Top-Coat.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	
Density	1.11 g/cc	0.0403 lb/in <sup>3</sup>	
Solids Content	39.2 %	39.2 %	by volume
	43 %	43 %	by weight
Volatile Organic Compounds (VOC) Content	216 g/l	216 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	65.6 °C	150 °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	
Fluid Immersion	Distilled water (100°F – 4 days)	Slight blister less than 1.6 by S3S. No softening or wrinkling.
	Pass	Hydraulic Fluid (7 days r.t.)
	Pass	Lube Oil (250°F, 24 hours).
	Skydrol 500 B (7days r.t.)	No delamination or softening
Pencil Hardness	4H	
Salt Spray	500 hours	
Solvent Resistance	lacquer thinner, acetone, MEK, gasoline, xylene-50 double rubs with saturated cloth.	
	Pass	Rub 50 times with MEK soaked wipe.
Tape Adhesion	Pass; Wet and Dry	
Theoretical Coverage	628 ft <sup>2</sup> at 1 mil	
Vapor Density	Heavier than air	

## Contact Songhan Plastic Technology Co.,Ltd.

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