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Technical Data Sheet

WB Acrylic Modified Polyol

WB Acrylic Modified Polyol is designed to be used in 2K waterborne coating formulations. This line of friendly no-VOC aliphatic polyols combine a unique combination of properties which lend themselves for use in exterior weather resistant applications. These polyols exhibit excellent durability regarding resistance to abrasion, chemicals and sunlight when mixed with an isocyanate crosslinker. They may also create an optically clear high gloss or matte finish which is available in rigid or flexible versions. WB Acrylic Modified Polyols materials may be color pigmented to for solid or translucent appearance.

These acrylic polyols deliver up to 70% solids content and are available in fast drying or slow drying formulations resulting in mix ratios of eithr 2B:1A or 4B:1A. These polyols are intended to be used with polyisocyanate crosslinkers with mid to high degrees of %NCO such as WB Aliphatic Prepolymer-16 or WB Aliphatic Prepolymer-23. SuperSkinSystems offers a large range of WB Aliphatic Prepolymers form many customized coating formulations.

Recommended storage conditions are to protect from frost and high heat, temperature range: 45-95 F (7-35 C) and kept in tightly closed containers no longer than 12 months. KEEP FROM FREEZING. Please refer to MSDS for Product Safety and Regulatory information.

Technical Application Data

WB Acrylic Modified Polyol/Isocyanate systems are normally applied by brush, spray or roller. WB formulations are specially designed to accommodate slow to fast dry applications at 60-90°F ambient temperatures with 50-60% relative humidity yielding drying times of 15 min. to 1h-15 min. Operational temperatures range from 20°F to 150°F. Recommended application is 2 medium wet coats with coverage of 250 sq.ft./ gal at 6 mil thickness. Initial clean-up is with soap and water, then using alcohol for final rinsing of equipment . For technical assistance, please give our Customer Service/Tech Support Group a call at 404-216-4711 or 336-601-6005. Please refer to MSDS for material and safety standard procedures.

Physical Properties

Rigid Physical Properties (Solid-Reacted with APU 16)		
Percent Solids	ASTM D3926	70%
Tensile Strength	ASTM D412	3600 psi
Elongation	ASTM D412	100 %
Viscosity (Liquid)	@ 25C	1000-3500
Equivalent Wgt		524
Density (Liquid)	ASTM D1475	8.8 lbs/g
Ph (Liquid)	DIN ISO 976	7-8
Hardness Shore D	ASTM D785	65-70D

Flex Physical Properties (Solid-Reacted with APU 16)		
Percent Solids	ASTM D3926	70%
Tensile Strength	ASTM D412	2000 psi
Elongation	ASTM D412	200 %
Viscosity (Liquid)	@ 25C	1000-3500
Equivalent Wgt		549
Density (Liquid)	ASTM D1475	8.8 lbs/g
Ph (Liquid)	DIN ISO 976	7-8
Hardness Shore D	ASTM D785	40-45D

Substrate Surface Preparation

Preparation of substrate surface prior to the application is extremely important as durability is only as good as the weakest link in the coating system.

Concrete must be fully cured and should be prepared with a sandblasting, diamond grinding or machine sanding depending on the severity of the concrete surface condition. Similar proper preparation must be performed for metals. Primers also require this proper preparation. Always power clean using mild detergent prior to sanding, etc. Call Tech Support Group for assistance with selecting SSS application system. Also read the Application Page on this website. If patching concrete, use our mineral filled fast-set Acrylic Modified Epoxy applied by trowel. For expansion joints, use Joist Seal applied by hand cartridge dispensing gun. It is always best to perform a test within a small section of the application area prior to full scale engagement.