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TEVO WBE-2 Technical Data Sheet.

TEVO WBE2 is a clear or pigmented 2- component water based aliphatic epoxy formulation with excellent chemical and UV resistance. TEVO WBE2 has great adhesion to most substrates such as concrete, metals and asphalt. There is no odor or vocs allowing it to be used for inside applications. It is available with 50% nano size glass filler , anti static , anti-microbial, and anti-corrosive additives.

TEVO WBE2 can be used as a primer and can be diluted with 25% water to penetrate porous concrete.

TEVO WBE2 dries to a high gloss top coat . The glass filled dries to a matte finish with a non skid finish.

TEVO WBE2 dries very fast depending on temperature , humidity and thickness. Typical drying times are 15 minutes with up to 8 hour pot life.

TEVO WBE2 may be sprayed, brushed or rolled. Tack free at 75F is 15-30 minutes. At temperatures of 50F tack free times maybe 2 hours. Rolling should be done with a short knap roller. Typical use temperatures are between 25-150F . Full cure should be 24 hours.

TEVO WBE2 can be made with ESD (electrostatic discharge) additives. It is available in clear or pigmented. Unlike other ESD resins which use carbon fibers , WBE2 does not need them . ESD materials are used in clean rooms or where sparks may cause serious problems.

Please contact our technical support group for specific substrate application procedures, equipment, safety gear and clean-up kits. Refer to SDS for material and safety standard procedures.

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Photo showed WBE-2 used in Chattanooga, GA., USA in a lab.

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Concrete must be fully cured and cleaned prior to any coating operation. The cleaning operation must not leave any residual detergents, acids or alkali cleaners. Concrete flooring should be prepared with shot blasting (SPCC min. 2), diamond grinding and/or machine sanding depending on the severity of the concrete surface condition.

After concrete floor is properly prepared, WBE-2 self-priming material is to be applied within 45°F to 100°F. It is recommended that TEVO WBE-2 be diluted up to 25% water and used as a primer coat to the bare concrete which will actively penetrate the porous surface. This primer coat should also be slightly A-Side rich to promote excellent chemical bonding for the sequentially applied basecoat. This is accomplished by increasing the A-Side ratio by 10-12% PBV.

For non-skid floors using TEVO WBE2, mix the A&B sides at 1/1pbv ratio with a jiffy mixer until uniform color is obtained. Add equal amounts of nano glass to the mixed A&B and stir with a jiffy mixer until a uniform color is reached. Apply 8-10 wet mils (200-250 microns) to using a short knapp roller. You may add 5% water if the viscosity needs adjusting. Recommended wet application film thickness as a primer should be 4-6 mils. Recommended wet application film thickness as a basecoat and topcoat be 8-10 mils. Coverage at 8 mils is 300 sq. ft. / mixed gal. When using TEVO WBE2 for coating steel, the substrate should be shot blasted to a sspc 4-6 mils profile. After shot blasting the substrate should be clean and dry. There should be no visible rust prior to coating. Apply 4-6 mil coating of TEVO WBE2 with the anti-corrosive zinc additive. TEVO WBE2 or TEVO WBE2 glass filled and pigments may be applied 4-6mils after the first coat dries to the touch.

Variable Adjustments

Increase or decrease up to 20%

Ratio Change	Excess A-Side	Excess B-Side
Pot Life	Increase	Decrease

Flexibility	Increase	Decrease
Hardness	Decrease	Increase
Better solvent	Increase	Decrease
Resistance	Decrease	Increase
Acid Resist	Increase	Decrease
Adhesion	Increase	Decrease
Water Resistance	Decrease	Increase
Corrosion	Decrease	Increase

Physical Properties

TEVO WBE-2 PHYSICAL PROPERTIES

Flex Modulus	ASTM D624	450 kpsi
Tensile Strength	ASTM D412	8610 psi
Elongation	ASTM D412	15%

Heat Deflection Temperature	ASTM D648	145 F
Relative Humidity	ASTM F2170	85%
Taber Abrasion CS18	ASTM D4060	80
Mix Ratio	PBV	1:1
Pot Life	8 hrs max.	

TEVO WBE-2 Glass Filled PHYSICAL PROPERTIES

Flex Modulus	ASTM D624	750 kpsi
Tensile Strength	ASTM D412	8750 psi
Elongation	ASTM D412	15%
Heat Deflection Temperature	ASTM D648	165 F
Relative Humidity	ASTM F2170	85%
Taber Abrasion CS18	ASTM D4060	75

Mix Ratio

PBV

1 Hardener : 1 Resin : 1 Glass

Pot Life

6-8 hrs max.

