Specialized Industrial Materials

WBAE Epoxy TDS

WBAE is a water borne clear drying aliphatic epoxy formulation with excellent chemical resistance and adhesion performance with no odor during application. It is a two component 75% solids containing no VOCs and is designed to be used as a self-prime or finish coat on metal, wood, fiberglass, concrete, masonary as well as some oily surfaces. It may also be formulated as an anti-corrosive coating.

WBAE is a material which finishes to a glossy smooth finish when cured. This material is may be used directly on hydroscopic surfaces and become tack free within 15 minutes depending on ambient humidity, temperature and thickness. It is an excellent adhesion promoter for Specialized Industrial Materials™ polymers as it retains a wide functional temperature range and flexibility from 25F to 150F. Full cure is achieved under normal conditions in 24 hours.

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

WBAE 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	80%
Taber Abrasion CS18	ASTM D4060	80
Mix Ratio	PBV	1:1
Pot Life	8 hrs max.	

WBAE Flex PHYSICAL PROPERTIES		
Flex Modulus	ASTM D624	125 kpsi
Tensile Strength	ASTM D412	3750 psi
Elongation	ASTM D412	150%
Heat Deflection Temperature	ASTM D648	145 F
Relative Humidity	ASTM F2170	85%
Taber Abrasion CS18	ASTM D4060	75
Mix Ratio	PBV	1:1
Pot Life	8 hrs max.	

TECHNICAL APPLICATION DATA

Application substrates must be clean/dry from contaminates; i.e. free of loose rust, paint, moisture, dirt, oils, etc. This self-prime material is to be applied within 40°F to 100°F. If application surface exhibits extensive corrosion, spalling and/or weak deteriorating substrate normal forms of media or shot blasting is recommended to create a secure surface preparation. For conditions which may only require liquid washing and cleaning with detergents, acids, bio-enzymes, etc. involving processes of scrubbing, rinsing and drying, the finish surface must not retain any residual cleaner unless specified by Specialized Industrial Materials™. Concrete must be fully cured and should be prepared with shot blasting, diamond grinding or machine sanding depending on the severity of the concrete surface condition. Similar proper preparation must be performed for metal surfaces. Primers also require this proper preparation. Always power clean using mild detergent prior to sanding, etc. Call our Tech Support Group for assistance with selecting Specialized Industrial Materials™application system. Mix 1A:1B thoroughly with a hand drill jiffy mixer. Apply WBAE coating by roller, brush or air-less sprayer. Working time at 75°F is 8 hours. Recommended max wet application film thickness is 6-10 mils. Coverage at 8 mils is 300 to 400 sq. ft./ mixed gal.

22820 Interstate 45 North Bldg. 2N **Spring, TX 77373**
Office: 281.850.0301 Fax: 866.308.0009