Warren Environmental, Inc.

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16 Plus Floor Tile Thin Set Epoxy System

Description: The Warren Environmental Floor Tile Grout Epoxy System is a 2-part epoxy primer system formulated with special additives and modifiers to enhance the water resistance, chemical resistance, and bond strength to a variety of substrates.

Advantages: Some of the advantages of the Floor Tile Grout Epoxy System include long open time , excellent cure at low temperature and high humidity, zero induction time, 100% solids with no VOC's or hazardous components, and long working time (pot life) relative to cure time.

Safety and Handling: The Floor Tile Grout Epoxy System is typical of most epoxies in that the activator containing an Amine could cause skin and eye irritation if mishandled in the uncured state. The resin could also cause some irritation upon prolonged or repeated direct exposure. Rubber gloves, protective eye wear and protective clothing are strongly recommended when handling these materials. In the event of accidental contact, treat as follows:

Skin Contact: Wash thoroughly with soap and water. Do not use solvents such as Acetone, Toluene, Methyl Ethyl Ketone (MEK) etc. Remove contaminated clothing and wash in detergent before re-wearing.
Eye Contact: Flush eyes immediately for 15 minutes with large volumes of water and seek IMMEDIATE medical attention.

Liquid Properties

Viscosity	20,000 - 25,000 cps.	**Specific Gravity**	0.977
Thixotropic Index	3.0 - 3.5	**Flash Point (Closed Cup)**	>235°F
Thin Film Set @ (40°F)	9.0 hours	**Color**	Varies
Thin Film Set @ (77°F)	3.0 hours	**Gel Time (200 grams @ 77°F)**	27 minutes

Physical Properties

Tensile Strength (ASTM D638-86)	9300 PSI	**Tensile Elongation (ASTM D638-86)**	4.8%
Flexural Strength (ASTM D790-86)	14,000 PSI	**Flexural Modulus @ .100" (ASTM D790-86)**	606,000 PSI
Compressive Strength (ASTM D695-85)	12,000 PSI	**Glass Transition Temperature (ASTM D3418-82**	151°F.
Thin Film Set Time @ 77 Deg. F.	2 hours	**Shore D Hardness**	80 - 82

Chemical Resistance (28 Day Immersion) Percent Weight Gain

Toluene	0.99%	**10% Acetic Acid**	3.85%
Ethanol	4.68%	**70% Sulfuric Acid**	0.13%
50% Sodium Hydroxide	0.09%	**Distilled Water**	1.11%
Methanol	9.55%	**Xylene**	0.69%
Butyl Cellosolve	1.18%	**Methyl Ethyl Ketone (MEK)**	11.2%
10% Lactic Acid	3.24%	**Bleach (Hypochloric Acid)**	0.93%
1,1,1 Trichloroethane	0.43%	**10% Nitric Acid**	2.05%
30% Nitric Acid	4.17%	**-**	-