Technical Data Sheet

SHOOLIN TILEMATE EP S -900

(HIGH PERFORMANCE TWO / THREE COMPONENT EPOXY TILE GROUT)

SHOOLIN®

DESCRIPTION

EPOXY GROUT is hygienic, stain-resistant, 2/3 component epoxy resin-based grout with a high degree of resistance to chemical attack, abrasion and impact. The cured grout does not transfer taints to food products, prevents the entry of bacteria or dirt and is easily maintained in a sterile condition. EPOXY GROUT is designed for grouting glazed tiles, mosaic, vitrified and fully vitrified tiles, ceramic tiles, industrial tiles, granites, marbles & other natural stones, etc.

STANDARDS

- Exceeds EN 13888 requirements

AREAS OF APPLICATION

- Walls and Floors
- Interiors and Exteriors
- Dry areas
- Showers
- Swimming Pools
- Heavily Trafficked Floors
- Hygienic Sterile Areas
- Kitchens and Cafeterias

Note

(1) Do not use showers for at least 2 weeks following completion ofgrouting.

(2) Do not fill pool at least 3 weeks following completion of grouting.

FEATURES

- Hygienic and chemical resistant
- Stain and bacterial resistant
- Can be cleaned off in 15 minutes and up to 60 minutesafter application
- Provides high strength and durable joints
- Suitable for submerged conditions
- Easy to be cleaned from tiled surface
- Suitable for joint width of 1 - 12 mm
- Available in a wide range of colours

PHYSICAL PROPERTIES

EPOXY GROUT	@ 27± 1°C
Mixed Density	1.70
Joint Width	1 - 12 mm
Pot Life	45 minutes
Foot traffic	24 hours
Full cure	7 days
Temperature	Prolonged -30°C to 50°C
Resistance	Intermittent upto 70°C

CHEMICAL RESISTANCE CHART

Shoolin Chemicals "Chemical Resistance" chart.

CHEMICAL	EPOXY GROUT
Acetic Acid (5%)	**
Acetic Acid (10%)	*

Bond strength	>1.5 N/mm²@ 7days
Tensile Adhesion 14 Days air	4.5 kN
Compressive strength	>55 N/mm²@ 7days
Flexural strength	> 20 N/mm²@ 7days
Water Absorption	Nil
Shore D Hardness	> 70
VOC Content	113.78 g/l

Acetone	*
Acetyl Bromide	*
Aluminium Bromide	***
Aluminium Fluoride	***
Ammonium Bromide (5%)	**
Baking Soda	***
Barium Hydroxide	***
Beer	***
Benzene	*
Boric Acid	***
n-Butanol	***
Butyl Acetate	*
Calcium Chloride	***
Calcium Hydroxide	***
Carbon Disulphide	*
Carbon Tetrachloride	*
Carbonates	***
Carbonic Acid	***
Castor Oil	***
Chlorides	***
Chlorinated Paraffin	***
Chloroform	*
Chromic Acid	*
Citric Acid	***
Coconut Oil	***

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Cotton Seed Oil	***
Diesel Oil	***
Dilute Detergents	***
Ethanol	***
Ethyl Alcohol	*
Ethylene Glycol	***
Fats	***
Ferric Chloride	***
Fish Oil	***
Fluorides (except HF)	***
Formic Acid	*
Gasoline	***
Ground Nut Oil	***
Heptane	***
Household Ammonia	**
Hydrobromic Acid	**
Hydrochloric Acid (dil)	**
Kerosene	***
Lactic Acid (3%)	**
Lime Juice	*
Linseed Oil	***
Lubricating Oils	***
Methanol	**
Milk	***
Nitrates	***
Nitric Acid (10%)	*
Olive Oil	***
Oleic Acid	***
Palm Kernel Oil	***
Palm Oil	***
Paraffin Wax	***
Phenol	*
Phosphoric Acid (10%)	**
Pine Oil	***
Polypropylene Glycol	***
Potassium Hydroxide	***
Proprietary Sterilising Agents	***
Silicates	***
Sodium Carbonate	***
Sodium Chloride	***
Sodium Hydroxide	**
Sodium Hypochlorite Soln.	
(15% available chlorine)	***
Soya Bean Oil	***
Sugars	***
Sulphates	***
Sulphuric Acid (45%)	*
Sunflower Seed Oil	***
Tannic Acid	***
Tetrahydronahpthalene	***
1,1,1- Trichloroethane	***
Vegetable Oils	***
Water	***
White Spirit	***

NOTE:

* Splash contact only

** Contact for max. 24 hours before washing off

*** Prolonged contact

COVERAGE ESTIMATES

Pack size

5 kg &1 kg sets

Coverage

Consumption depend on joint width, size of tiles

Theoretical coverage calculation:

$$\frac{(\text{Tilelength}+\text{Tilebreadth})\times \text{Tilethickness}\times\text{Jointwidth}\times \text{MixedDensity}^{*}}{(\text{Tilelength}+\text{Jointwidth})\times(\text{Tilebreadth}+\text{Jointwidth})} = \text{kg}/\text{m}^2$$

NOTE:

* Mixed Density = 1.70

All the dimensions are in mm

APPLICATION INSTRUCTIONS

Surface Considerations

- Before commencing grouting, the adhesive bed must be set.
- The joints must be clean of all adhesive residue, dust or debris.
- Lightly sponge the tile surface to remove dust & dirt.

Movement Joints: These should be provided in accordance with BS 5385:part 1 - 5 and may be filled with the appropriate flexible sealant. Intermediate floor joints should be reinforced with brass or stainless steel. Use stainless steel where hygiene is essential.

Mixing

The entire contents of PART A and PART B should be poured into a clean mixing vessel and mix to a uniform consistency. Slowly add PART C until the required slump free smooth paste is obtained. Immediately pour the mixed grout onto the working area.

Application

- Using a hard rubber grout float, compact the EPOXY GROUT into the joints ensuring that they are completely filled. Work in small areas and remove as much excess from the tile/stone surface as possible. Strike off excess materials diagonally to the grout lines.

- Between 15 - 60 minutes after application, check for joints to be stiff. Use a scrubber (for rustic & matt finish tiles) or sponge/clean cloth (for smooth tiles) dampened with clean water to scrub the tile surface in a circular motion diagonally to the grout lines in both clock-wise and anti-clock-wise directions.
- After 12 - 24 hours, clean the tile surface with water and soap solution to remove any epoxy stains.

Note:

- Care should be taken to avoid staining of unglazed tile/stone, quarry textured surface. Check the potential risk of staining by applying the grout to a few tile/stone in a small trialarea.
- If working in food processing/preparation/storage areas, keep tiles/mosaics dry and DO NOT bring floor into service until EPOXY GROUT is hard/cured. Avoid contact between food and tiling for atleast 7 daysafter grouting.

CLEANING

Tools and containers may be cleaned using water when the adhesive is still fresh. The hardened adhesive can be removed from toolsmechanically.

STORAGE AND SHELF LIFE

EPOXY GROUT has a shelf life of 24 months when stored in normal dryconditions.

PRECAUTIONS

Keep out of reach of children. Wear suitable protective clothing, gloves and eyes/face protection. After contact with skin, wash immediately with plenty of clean water. In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice.

For more details please refer the relevant Material Safety Data Sheet