

EPOXY GROUT

Resin based grout

DESCRIPTION

EPOXY GROUT is hygienic, hard-wearing, impervious, 3 component epoxide 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
- Conforms to the Overall Migration Standards laid down in 21 CFR 175 - 300 (April 1, 2011) of US - FDA for intended use for contact with aqueous food products.

AREAS OF APPLICATION

Walls & Floors	✓
Interior & Exterior	✓
Dry Areas	✓
Wet Areas	✓
Showers	✓ (1)
Swimming Pools	✓ (2)
Heavily Trafficked Floors	✓
Hygienic Sterile Areas	✓
Chemical Resistance	✓

Note

✓ = Suitable

- (1) Do not use showers for at least 2 weeks following completion of grouting.
- (2) Do not fill pool at least 3 weeks following completion of grouting.

FEATURES

- Hygienic and chemical resistant
- Stain and bacterial resistant
- 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
- For interior & exterior use
- Available in range of colours
- Conforms to the Overall Migration Standards laid down in 21 CFR 175 - 300 (April 1, 2011) of US - FDA for intended use for contact with aqueous food products
- Exceeds EN 13888 requirements

COLOURS

White	Alpine blue
Ivory	Dark blue
Cream	Copper brown
Beige	Dark brown
Yellow	Terra red
Mushroom	Burgundy
Pink	Grey
Light green	Steel grey
Dark green	Dark grey
Blue	Black

PHYSICAL PROPERTIES

EPOXY GROUT	@ 27 ± 1°C
Specific Gravity	1.70
Joint Width	1 - 12 mm
Pot Life	45 minutes
Foot traffic Full cure	24 hours 7 days
Temperature Resistance	Prolonged -30°C to 50°C Intermittent upto 70°C
Bond strength	> 1.5 N/mm ² @ 7days
Tensile Adhesion 14 Days air	4.5 kN
Compressive strength	> 55 N/mm ² @ 7days
Flexural strength	> 20 N/mm ² @ 7days
Water Absorption	Nil
Shore D Hardness	> 70
VOC Content	113.78 g/l

CHEMICAL RESISTANCE

EPOXY GROUT is resistant to a wide range of liquids and chemicals, for specific information please refer to the following ARDEX ENDURA "Chemical Resistance" chart.

CHEMICAL RESISTANCE CHART - SUMMARY OF RESULTS

CHEMICAL	EPOXY GROUT
Acetic Acid (5%)	**
Acetic Acid (10%)	*
Acetone	*
Acetyl Bromide	*
Aluminium Bromide	***
Aluminium Fluoride	***
Ammonium Bromide (5%)	**
Baking Soda	***
Barium Hydroxide	***

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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	***
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	***
Tetrahydronaphthalene	***
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

PART A 1.0 kg

PART B 400g

PART C 1.8 kg x 2 nos

1 kg

PART A 200g

PART B 80g

PART C 720g

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Coverage

Consumption depend on joint width, size of tiles

Theoretical coverage calculation:

$$\frac{(\text{Tile length} + \text{Tile breadth}) \times \text{Tile thickness} \times \text{Joint width} \times \text{Specific gravity}^*}{(\text{Tile length} + \text{Joint width}) \times (\text{Tile breadth} + \text{Joint width})} = \text{kg/m}^2$$

NOTE:

* Specific gravity = 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 EPOXY GROUT consistency can be adjusted to suit the application and site conditions by varying the quantity of PART C added to the mixed PART A and PART B.

Shake the bottle of PART B and stir PART A. In a clean mixing vessel, take Part A and add Part B and mix until a slump free smooth paste is obtained. If an electric drill mixer is used blend on a slow speed (less than 300rpm). Slowly add the required amount of PART C and mix until a uniform colour is achieved. Immediately pour the mixed grout onto the working area.

NOTE:

- In general the PART C usage will vary depending on the consistency, temperature, different usage conditions, walls and floors building up of thickness, etc.
- Grouting at certain points: stiffer consistency required to 'stop' open-ended joints or grout skirting tiles.

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/stones surface as possible. Strike off excess materials diagonally to the grout lines.
- Plug open-ended joints with the stiffer mix to prevent any slumping of the EPOXY GROUT joints from occurring.
- Between 30 - 45 minutes after application (check for joints to be stiff), use a scrubber dampened with clean water to scrub the tile surface in a circular motion (in both clock-wise and anti-clock-wise directions)
- Clean the tile surface with a fine sponge, diagonally to the grout lines taking care not to drag the grout from the joints.
- After 12 - 24 hours, clean the tile surface with water and soap solution to remove any epoxy stains.

Note:

- A. Care should be taken to avoid staining tile/stone when grouting with coloured grout. This is especially applicable when grouting unglazed floor tiles/stone, quarry textured surface, etc. Check the potential risk of staining by applying the grout to a few tile/stone in a small trial area. If discolouration occurs apply PROTECTIVE TILE & STONE SEALER and repeat the trial.
- B. 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 at least 7 days after grouting.

CLEANING

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

STORAGE AND SHELF LIFE

EPOXY GROUT has a shelf life of 12 months when stored in normal dry conditions.

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

CONDITIONS OF SALE

Sold subject to the Company's conditions of sale which are available on request.

NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

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