

# EPOXY GROUT

## High Performance Epoxy Tile Grout

### DESCRIPTION

EPOXY GROUT is hygienic, stain-resistant, 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
- Conforms to the Global Migration Test laid by USFDA for intended use for contact with aqueous food & beverage (water based) products.

### 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 of grouting.
- (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 minutes after 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

Bond strength	>1.5 N/mm <sup>2</sup> @ 7days
Tensile Adhesion	4.5 kN
14 Days air	
Compressive strength	>55 N/mm <sup>2</sup> @ 7days
Flexural strength	> 20 N/mm <sup>2</sup> @ 7days
Water Absorption	Nil
Shore D Hardness	> 70
VOC Content	113.78 g/l
Global Migration Test (USFDA – 175.300)	Passes

### 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

CHEMICAL	EPOXY GROUT
Acetic Acid (5%)	**
Acetic Acid (10%)	*
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	***
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 (2.5 kg x 2) & 1 kg sets**

#### Coverage

Consumption depend on joint width, size of tiles

Theoretical coverage calculation:

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

### 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.

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- 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 trial area.
- 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 24 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.

### ARDEX ENDURA (INDIA) PRIVATE LIMITED

an ISO 9001:2015 & ISO 14001:2015 certified company  
Corporate Office & Regd. Office: Unit No. 406 & 407,  
"Brigade Rubix" No. 20, HMT Campus,  
Yeshwanthpur Hobli, Bengaluru - 560013.  
CIN No: U24233KA1997PTC022383 Tel: +91 80 66746500  
Email: [customer-care@ardexendura.com](mailto:customer-care@ardexendura.com)  
Website: [www.ardexendura.com](http://www.ardexendura.com)

#### Branches

• AHMEDABAD	079 26425310	• HUBBALLI	0836 2970505	• NAGPUR	+919822223743
• AURANGABAD	+918605445577	• HYDERABAD	040 27650293	• PATNA	+919934687909
• BENGALURU:	080 40912934	• INDORE	0731 4021148	• PUNE	+919028811555
• BHUBANESHWAR	0674 2578101	• JAIPUR	0141 2441893	• RAIPUR	0771 4038300
• CALCUT	0495 2740334	• KOLKATA	+919831071084	• SALEM	0427 2271454
• CHENNAI	044 42805544	• LUCKNOW	0522 4043251	• SHIVAMOGGA	+919880605770
• DELHI	011 26384711	• LUDHIANA	0161 2532170	• TRICHY	+919894766109
• ERNAKULAM	0484 2341044	• MANGALURU	0824 2442176	• TRIVANDRUM	0471 2598648
• GOA	0832 2750992	• MUMBAI	022 65133299	• VIJAYAWADA	+918688354587
• GUWAHATI	+917896002188	• MYSURU	0821 2570171	• VISAKAPATNAM	0891 6469499

