



EPOXY GROUT

Resin Based Grout

HYGIENIC, HARD-WEARING, IMPERVIOUS, EPOXIDE RESIN-BASED GROUT, WITH VERY GOOD CHEMICAL RESISTANT AND ABRASION RESISTANT, SUITABLE FOR FOOD INDUSTRY AND WHERE STERILE CONDITION IS NECESSARY

Features

Sterile

Durable joints

Hygienic and chemical resistant

High strength

Stain and bacterial resistant

High abrasion resistant

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

Indian Green Building Council

M E M B E R

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DESCRIPTION

EPOXY GROUT is a three-part system, comprising of PART A, PART B and PART C. For ease of application and the ability to fill tile / stone joints the grout is best mixed to a smooth, creamy consistency.

EPOXY GROUT is Hygienic, hard-wearing, impervious, epoxide resin-based grout with a high degree of resistance to chemical attack, abrasion and impact. The cured grout does not transfer taints to foodstuffs, does not permit the entry of bacteria or dirt and is easily maintained in a sterile condition.

STANDARDS

Exceeds the performance requirements of BS 5980 : 1980 for tensile strength.

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.

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

AREAS OF APPLICATION

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

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.

SURFACE PREPARATION

- Joints should be free from efflorescence, laitance, dirt and other loose material. Remove thoroughly by dry brushing.
- Clean: All joints should be cleaned down by washing with water containing detergent, then with clean water.
- Ensure the joints are dry before grouting.

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.

SITE WORK INSTRUCTIONS SURFACE CONSIDERATIONS

Fixing the Tiles:

It is essential that the tiles used are appropriate for the service conditions and are fixed in the correct manner.

Application Procedure:

Before commencing grouting the adhesive bed must be set. It is essential that the tiles used are appropriate for the service conditions and are fixed in a solid bed of adhesive i.e. ensuring that, as far as possible, no voids are left behind / beneath the tiles. Refer to the relevant product datasheet for setting / drying times.

Protect open joints from contamination and ensure that they are clean, dry and free from loose debris prior to grouting.

Do not grout at temperatures less than 5°C or in damp conditions.

MIXING PROPORTION

*PARTS BY WEIGHT

PART A	1.0 kg
PART B	400 g
PART C	3.6 kg

*Part mixing is not permitted

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.

1. Before use shake the bottle of PART B and stir PART A.
2. Add all of PART B to all of PART A in a suitable, clean container and thoroughly mix together. If an electric drill mixer is

used, blend at slow speed (less than 300 rpm).

3. Slowly add the required amount of PART C and mix until all the PART C has been dispersed and a uniform colour is achieved.
4. Immediately pour the mixed grout onto the working area.
5. The mixed EPOXY GROUT is usable for up to 45 minutes at 27±1°C.

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

Check Potential Staining Risk:

Apply EPOXY GROUT to a few tiles in small trial area. If discolouration occurs or difficulties are encountered with cleaning off (surplus grout), apply ARDEX ENDURA PROTECTIVE TILE & STONE SEALER and repeat trial. Ensure adequate ventilation in working areas.

1. 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 surface as possible. Strike off excess materials diagonally to the grout lines.
2. Plug open-ended joints with the stiffer mix to prevent any slumping of the EPOXY GROUT joints from occurring.
3. Within 30 minutes of mixing, clean off surplus EPOXY GROUT. Use a Scrubber dampened with clean water to break down (emulsify) the grout residue. Use a circular motion and keep the Scrubber flat relative to the tile surface to achieve a flush joint. Warm water, although not essential will greatly ease the emulsification process. Do not allow water to flow/run into ungrouted joints.
4. Clean off the emulsified epoxy / water residue with a fine sponge, taking care not to drag EPOXY GROUT from the joints. Clean diagonally to the grout lines.
5. Do not allow the haze to remain on the surface for any longer than 45 minutes.

NOTE : Care should be taken to avoid staining tiles when grouting. This is especially applicable when grouting unglazed floor tiles, quarry tiles, and tiles with a matt glaze or textured surface. Check the potential risk of staining by applying the grout to a few tiles 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.

TECHNICAL SPECIFICATION

EPOXY GROUT	@ 27 ± 1°C
Joint Width	2 - 20 mm
Pot Life	45 minutes
Setting Time	48 hours
Temperature Resistance	Prolonged -30°C to 50°C Intermittent Up to 70°C
Water Absorption	Nil (1) Determined by the Campden Food & Drink Research Association, UK.
Specific Gravity	1.75
Shore D Hardness	> 70

TYPICAL VALUE

EPOXY GROUT	@ 27 ± 1°C
Tensile Adhesion (14 day air)	
Dry Condition (kN)	
EPOXY GROUT	>4.5
BS.5980:1980 min.	0.95
Wet Condition (kN)	
EPOXY GROUT	>3.6
BS.5980:1980 min.	0.56

Exceeds the requirements of BS 5980 : 1980

SPACERS

Use ARDEX ENDURA spacers for uniform joint width.

STORAGE AND SHELF LIFE

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

For more details please refer the relevant product safety datasheet

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	***
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

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.

COVERAGE ESTIMATES

Pack size	Coverage
5 kg	Consumption depend
PART A 1.0kg	on joint width, size of
PART B 400g	tiles and good
PART C 3.6kg	workmanship
	Refer to the
1 kg	theoretical coverage
PART A 200g	calculation below:
PART B 80g	
PART C 720g	

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 = 1.75

All the dimensions are in mm

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.

BRANCHES

• AHMEDABAD	079 26425310	• LUCKNOW	0522 4043251
• AURANGABAD	9881249293	• LUDHIANA	0161 2532170
• BANGALORE	080 22230138	• MANGALORE	0824 2442176
• BHUBANESHWAR	9937091799	• MUMBAI	022 65133299
• CALICUT	0495 2333065	• PUNE	020 64781879
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• DELHI	011 32092369	• RAILA	9509764756
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