

## Two Component, High Performance Epoxy Grout

### Description

Pepoxy Epoxy Grout consists of a blend of specially selected resins, curing agents, graded inert acid resistant fillers with unique colours.

A two component, Pepoxy epoxy based tile grout is available in a range of colours and suitable for all types of tiles and stones on the floor and wall. It has high chemical & abrasion resistance, and being impervious, it also produces hygienic joints that needs minimal maintenance. It is easy to apply and clean off, combining the performance of epoxy grouts with the ease of application associated with cement based grouts.

### Uses

Pepoxy Epoxy is suitable for grouting all types of Tiles & Stones in Internal & External, walls & floors and in Dry and Wet environments. Few examples are:

- Food preparation areas. Dairies, Kitchens & Cafeterias
- Showers, Swimming Pools, Bathrooms & Water bodies
- Hygiene sterile areas, Hospitals
- Industrial/Chemical plants
- Domestic areas & work top
- Granite ,Marble ,Metal tiles ,Agglomerates (Engineered Stones) , Precast Terrazzo tiles
- All types of Runways ,Highways , Road Cracks , etc.

### Advantages

- ✓ Excellent resistance to chemicals.
- ✓ Solvent free and low odour formulation - can be used in confined areas.
- ✓ Attractive appearance, easily cleaned.
- ✓ Available in a range of attractive colours.
- ✓ UV Resistant
- ✓ Resists bacterial growth.
- ✓ Hygienic - good to use in Laboratories, Hospitals and Health centers.
- ✓ Good to use in wet area, fountains, swimming pool, kitchen, bathroom and Sauna.

### Properties

Typical Properties of mixed material.

|               |                   |
|---------------|-------------------|
| Mixed Density | approx. 1.50 g/cc |
| Joint Width   | 1 - 15 mm         |

|                |         |         |
|----------------|---------|---------|
| At Temp:       | 23°C    | 35°C    |
| Pot life :     | 50 mins | 25 mins |
| Initial Cure : | 24 hrs  | 18 hrs  |
| Full Cure :    | 7 days  | 4 days  |

Resistance Temperature : 0 to 80 Degree Celcius

### Chemical resistance

Pepoxy Epoxy Grout is resistant to a comprehensive range of chemicals ,few of them are listed below:

### Acids

|                       |             |
|-----------------------|-------------|
| Hydrochloric acid 50% | : Excellent |
| Nitric acid 25%       | : Excellent |
| Sulphuric acid 50%    | : Excellent |
| Phosphoric acid 50%   | : Excellent |
| Acetic acid 10%       | : Excellent |
| Lactic acid 10%       | : Excellent |
| Citric acid           | : Excellent |

### Alkali

|                      |             |
|----------------------|-------------|
| Sodium Hydroxide 50% | : Excellent |
| Ammonia (880) 10%    | : Excellent |

### Solvents

|                       |             |
|-----------------------|-------------|
| Petrol, Oil, Kerosene | : Excellent |
| Butanol               | : Very Good |
| Skydrol               | : Good      |

### Other Solutions

|                 |             |
|-----------------|-------------|
| Bleach (Conc)   | : Excellent |
| Saturated Sugar | : Excellent |
| Urea            | : Excellent |

### Properties tested to ISO 13007 – 4 (RG) / EN 13888

| Property with Test method                                                   | Min. Requirements | Typical Result    |
|-----------------------------------------------------------------------------|-------------------|-------------------|
| Abrasion Resistance<br>ISO13007–4:Clause4.4<br>(EN 12808-2)                 | ≤ 250 mm          | ~ 109 mm Flexural |
| Flexural Strength<br>ISO13007–4:Clause4.1.3<br>(EN 12808-3)                 | ≥ 30 N/mm         | ~ 38 N/mm         |
| Compressive Strength<br>ISO13007–4:Clause4.1.4<br>(EN 12808-3)              | ≥ 45 N/mm         | ~ 49.0 N/mm       |
| Shrinkage (24 h.)<br>ISO13007–4<br>(EN 12808-4)                             | ≤ 1.5 mm/m        | ~ 0.5 mm/m        |
| WaterAbsorption<br>(After 240 mins)<br>ISO13007–4:Clause4.2<br>(EN 12808-5) | ≤ 0.1 g           | ~ 0.005 g         |
| Chemical Resistance 12h.<br>(EN 12808-1)                                    |                   |                   |
| 20% HCL                                                                     | -                 |                   |
| 30% H2SO4                                                                   | -                 | — Passes          |

Pepoxy Epoxy Grout has been formulated specifically to provide the highest chemical resistance. However at elevated

temperatures or where a mixture of chemicals is involved the effects may differ from those found in laboratory tests as described. For further information, please contact on website [www.pepoxy.in](http://www.pepoxy.in).

### **Pack size**

- 1 kg kit (PART A~0.920 kg, PART B~ 0.080 Kg)
- 5 kg kit (PART A~4.600 kg, PART B~0.400 Kg)
- 25 kg kit (PART A~23.000 kg, PART B~2.000 Kg)

### **Instructions for use**

#### **Preparation**

- Check potential staining risk: Apply grout to a few tiles/stones in a small trial area. If discolouration occurs or cleaning difficulty, apply a suitable sealer and repeat trial.
- 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.

#### **Mixing**

Pour the content of PART B (Hardener) into the container of PART A (Resin) and mix well until a smooth paste is obtained. The use of a low speed electric drill is advantageous to get a homogeneous uniform coloured mix. Ensure that the mixed grout is used within its pot life/working time. This is reduced during at higher temperatures and extended at lower temperatures.

#### **Application**

- Using a hard rubber grout float, compact the mix into the joints ensuring that they are completely filled.
- Work in small areas and remove as much excess from the tile/stone surface as work proceeds. Strike off excess materials diagonally to the grout lines.
- Clean off during working time. Using a soft sponge with little cold water and applying gentle pressure, work in circular movement to emulsify the surface residues and provide uniform grout joints.
- After 15 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 tiled surface with water and soap solution to remove any remaining light haze.

### **Cleaning**

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

### **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.

### **Limitations**

Pepoxy Epoxy Grout should not be used when the temperature is below 5°C and falling. The product should not be exposed to moving water during application. If any doubts arise concerning temperature or substrate conditions, consult on website [www.pepoxy.in](http://www.pepoxy.in).

### **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

For further information on any of the above, please consult your Dealer/Sales - as below.



**High Performance**  
**Epoxy Grout & Spacing Products**

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