

# Polyglaze®

## PZ 2K EPOXY GROUT

**HIGH PERFORMANCE,  
TWO COMPONENT STAIN FREE  
EPOXY GROUT**



### PRODUCT DESCRIPTION

PZ 2K Epoxy Grout is a high performance, two-component, stain-free epoxy grout. It is specially designed for grouting tiles and natural stones in areas where exceptional strength, durability, and resistance to chemicals and stains are critical.

### AREAS OF APPLICATION

- ◆ Suitable for all types of tiles and natural stones in internal and external areas
- ◆ Ideal for wet areas, such as bathrooms, kitchens, swimming pools, etc
- ◆ Recommended for industrial and institutional facilities where hygiene, chemical resistance, and durability are critical-including hospitals, laboratories, food processing units, and factories
- ◆ Perfect for high traffic commercial spaces such as malls, airports and public buildings

### ADVANTAGES

- ◆ Two-component formulation for optimum performance
- ◆ Resistant to stains and chemicals
- ◆ High compressive and tensile strength
- ◆ Ideal and safe for use in potable water contact areas
- ◆ Highly thixotropic and non-sag formulation
- ◆ Can fill grout joints from 2 mm to 20 mm

### STANDARDS

Conforms to

- ◆ EN 12004 (RG)
- ◆ IS 17190 : 2020 (RG 1)
- ◆ EN 13888: 2022

### APPLICATION METHODOLOGY

#### Surface Preparation

- ◆ Ensure the adhesive bed is fully cured and set before grouting

- ◆ Maintain a minimum interval of 24 hours after tile fixing before grouting
- ◆ Remove any excess adhesive or mortar from joints
- ◆ Ensure tile joints are completely dry, clean and free of dust or debris
- ◆ Grout joints must be free from standing water, as it will affect the grout performance
- ◆ For highly porous or absorbent tile/stone, conduct a test patch for possible staining
- ◆ To avoid this problem, mask the tiles with tape before grouting
- ◆ Substrate temperature should be ideally between 15°C to 35°C

#### Mixing

- ◆ Pour entire contents of Part B (Hardener) into Part A (Resin paste) pail
- ◆ Mix thoroughly for 2 - 3 minutes till you get a uniform, smooth paste
- ◆ Use a low speed (100 rpm) electric mixer for best results

#### Application / Grouting

- ◆ Using the rubber grout float, scoop a small amount of the mixed grout and spread it over the tiles, holding the float at a 45-degree angle
- ◆ Apply firm pressure, pressing the grout into the joints diagonally to ensure they are completely filled and free of any air bubbles or voids. Work in small sections at a time
- ◆ Use the edge of the grout float to scrape off the excess grout, holding it at a near 90-degree angle to the tile surface. Scrape diagonally to avoid pulling the grout out of the joints
- ◆ As the grout starts gelling after 15 - 25 minutes, start the initial cleaning with a damp sponge
- ◆ Finally clean the tiled surface with a dry cloth
- ◆ Allow the epoxy grout to cure for a minimum of 24hrs under normal weather conditions and up to 7days for full chemical resistance

## PACKAGING

- ◆ PZ 2K Epoxy Grout is available in 4 kg pails
- Part A (Resin Paste): 3.680 kg
- Part B (Hardeners) : 320 g

## STORAGE & SHELF LIFE

- ◆ Store in a dry place away from moisture and sunlight
- ◆ Best Before 12 months from the date of manufacture in unopened sealed condition

## PRECAUTION & LIMITATIONS

- ◆ Always mix Part A and Part B of grout in given proportion
- ◆ Do not add or dilute with water
- ◆ Ensure the mixed material is used within its pot life
- ◆ Remove excess material within 30 minutes from the tiles and joints using a damp sponge
- ◆ Do not apply in extremely hot, cold or rainy weather conditions
- ◆ Remove grout haze from the tile surface using water & mild detergent or use Polyglaze PZ EGFR

- ◆ Change cleaning water frequently during the cleaning process
- ◆ After you apply the grout, cover the area with a plastic sheet for 48 hours to protect it from direct sunlight, rain and foot traffic
- ◆ Prolonged exposure to direct sunlight, heat or harsh chemicals may lead to colour change

## HEALTH & SAFETY

- ◆ Use a respiratory mask and protective gloves during application.
- ◆ Clean hands with soap and water after application.
- ◆ Avoid contact with skin / eyes. In case of unlikely contact, rinse eyes immediately with plenty of clean water and cleanse skin with soap and lukewarm water. Seek medical advice if irritation occurs / persists.
- ◆ In case of unlikely swallowing, seek medical attention immediately.



### Disclaimer:

The information in this TDS is for general guidance only. Specific advice for site conditions is available upon request. Details provided by the company are in good faith, when product is properly stored, handled, and applied under normal conditions. The site conditions, material compatibility, and workmanship are beyond our control, no warranties expressed or implied are given. The company accepts no liability for unsatisfactory results or consequential damages arising from product use.



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# TECHNICAL DATA SHEET

## PHYSICAL PROPERTIES

Physical Appearance	Part A: Coloured paste - Resin, Part B: Liquid - Hardener
Mixing Ratio (Part A : Part B) by weight	3.680 kg : 320 g
Mix Density	Approx. 1.75 to 1.90 g / cc
Pot Life @ 27°C	Approx. 45 minutes
Application Temperature	8°C to 40°C
Setting time	4 - 6 hours
Time to foot traffic	24 hours
Time to full cure	7 days
Jointing width	2 - 20 mm

## PERFORMANCE PROPERTIES AS PER IS 17190 : 2020 / EN 13888 : 2022

PROPERTIES	REQUIREMENT	PZ 2K EPOXY GROUT
Linear Shrinkage	Max. 0.15 %	0.012 %
Water Absorption after 30 Min.	Max. 0.5 %	0.02 %
Water Absorption after 240 Min.	NA	0.04 %
Compressive Strength	Min. 45 N/mm <sup>2</sup>	Min. 70 N/mm <sup>2</sup>
Flexural Strength	Min. 30 N/mm <sup>2</sup>	Min. 32 N/mm <sup>2</sup>
Abrasion Resistance	Max. 0.5 %	0.14 %
Transverse Deformation	NA	5.9 mm

### Note :

- ◆ Coverage depends on the depth and width of joint. Use the formula given below to Calculate consumption
- ◆ The above test results were achieved under Standard Laboratory Conditions at Temp: 27 ± 2° C & Rh: 65 ± 5%.

## COVERAGE

### Grout Consumption in kg/m<sup>2</sup>

$$\begin{aligned}
 &= \frac{(\text{Length of tile} + \text{width of tile}) \times \text{depth of joint} \times \text{width of joint} \times \text{density}}{(\text{Length of tile} + \text{width of joint}) \times (\text{width of tile} + \text{width of joint})} \\
 &\quad (\text{All dimensions are in mm})
 \end{aligned}$$