

3.4 Ezi EPOXY GROUT

**HIGH PERFORMANCE CHEMICAL AND STAIN RESISTANCE
WATERPROOF RESIN-BASED COLOURED GROUT
FOR GROUTING TILE JOINTS UP TO 12mm**







DESCRIPTION

Ezi EPOXY GROUT is a high performance, two-component, coloured reaction resin grout (RG) that has chemical and stain resistance.

Conforming to the requirement of MS ISO 13007-3, classified as type RG.

MAIN CHARACTERISTICS

Chemical & Stain Resistance		High Abrasion Resistance	
Water Impervious Properties		Easy Maintenance of Hygiene	

USAGE

Suitable to use for :

- grouting or pointing joints between ceramic tiles, natural stones, and mosaic tiles.
- grouting or pointing joints up to 12 mm.
- internal and external, wall and floor, dry and wet areas including water immersion areas.
- commercial, industrial and domestic location, where chemical resistance, maintenance of hygiene and bacteriological sterility are critical. For example: hospital, food factories, kitchen, laboratories, abattoirs, breweries, creameries, chemical plant, spa pool, battery filling room, thermal pool, worktops, etc.

COMPOSITION AND PERFORMANCE

Ezi EPOXY GROUT is a two-component resin-based epoxy grout with filler and low volatile organic compound (VOC) compliant product for industrial and household uses.

Ezi EPOXY GROUT offers the following benefits:

- High Chemical Resistance
- Stain Resistance
- Excellent Abrasion Resistance
- Water Impervious Properties
- Excellent Durability
- Almost No Shrinkage
- Easy Maintenance of Hygiene in Sterile Condition
- Minimised Growth of Fungus, Algae, Bacteria, etc.
- Minimised Efflorescence

PRODUCT INFORMATION

Name	: Ezi EPOXY GROUT
Packing	: 1 KG
Classification	: ISO 13007-3 Class RG
Shelf Life	: 12 Months in Sealed Condition
Colours	: Refer to Ezi EPOXY GROUT Chart
Relative Bulk Density	: 1.80 g/cm ³
Dry Solid Content	: 100%
Toxicity Hazard	: No
Inflammability	: No

APPLICATION DATA (Tested at approx. 25 °C)

Mix Proportion	: 3 pbw. Filler (Part A) to 1 pbw. Liquid (Part B)
Consistency of Mix	: Thin Creamy Paste Form
Joint Width	: Recommended up to 12 mm wide
Pot Life	: Approx. 40 minutes
Touch Dry	: Approx. 30 minutes
Setting Time	: Approx. 24 hours
Application Temperature	: From +5 °C to Normal Ambient Temperature

TECHNICAL DATA (Tested at approx. 25 °C)

Tested after 28 days	Result	Requirement
- Abrasion Resistance	: 100 ± 10 mm ³	< 250 mm ³
- Flexural Strength	: 32 ± 1.00 N/mm ²	> 30 N/mm ²
- Compressive Strength	: 54 ± 1.00 N/mm ²	> 45 N/mm ²
- Shrinkage	: 0.1 mm/m	< 1.5 mm/m
Water Absorption after 240 Minutes	: < 0.1 g	< 0.1 g
Resistance to Heat	: + 100 °C	
Resistance to Frost	: - 5 °C	
Resistance to Water	: Good	
Resistance to Alkalis	: Good	
Resistance to Acids	: Good	
Resistance to Oil and Solvent	: Good	

Tested in reference with the requirement of MS ISO 13007-3 Type RG

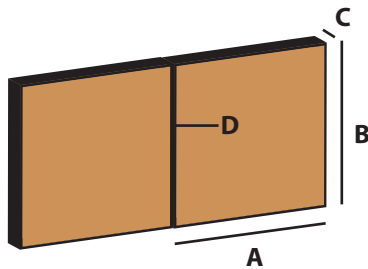
COVERAGE

Coverage Calculation Formula

$$\frac{(A+B) \times C \times D \times 1.4}{(A \times B)} = \text{kg/m}^2$$

*Unit = mm

- (A) Length of Tile
- (B) Width of Tile
- (C) Thickness of Tile
- (D) Width of Joint



Consumption Table

Size of tile (mm)	Width of the joint (mm)			
	2	3	5	10
25 x 25 x 4.0	0.90	1.34	2.24	4.48
51 x 51 x 5.0	0.55	0.82	1.37	2.75
108 x 108 x 4.0	0.21	0.31	0.52	1.04
150 x 150 x 5.5	0.21	0.31	0.51	1.03
200 x 200 x 7.5	0.21	0.32	0.53	1.05
200 x 300 x 7.5	0.18	0.26	0.44	0.88
300 x 300 x 8.0	0.15	0.22	0.37	0.75
300 x 600 x 9.0	0.13	0.19	0.32	0.63
400 x 400 x 10.0	0.14	0.21	0.35	0.70
450 x 450 x 12.0	0.15	0.22	0.37	0.75
500 x 500 x 12.0	0.13	0.20	0.34	0.67
600 x 600 x 12.0	0.11	0.17	0.28	0.56
800 x 800 x 12.0	0.08	0.13	0.21	0.42

INSTALLATION PROCESS

(1) Preparing the Joints

- Allow tile adhesive bed to set at least 24 hours before grouting installation.
- The joints must be dry, clean and free of contaminants (e.g. dust, grease, laitance, oil, paint, etc.).

(2) Preparing the Mix

- Pour all the liquid (Part B), into a drum containing filler (Part A) and mix thoroughly by hand or with a slow speed mixer until a smooth paste is obtained. *Note: Use the paste within 40 minutes.*

(3) Spreading the Mix

- Spread the mix with grout float or rubber squeegee and make sure the joints are completely filled and compacted with the mix. *Note: Ensure the joints are filled and grout is not just sitting on top.*

(4) Finishing the Grout

- Clean and remove excessive grout immediately using a damp cloth or sponge before it dries out.
- While the grout is firm adequately, polish tile surface with a clean dry cloth to remove grout haze.
- Ensure grout to set for 24 hours.

Noted:

- Colour pigments in coloured grout may cause staining or discolouration of certain tiles or natural stone slabs; thus always conduct a trial in a small area to determine ease of cleaning and compatibility, before actual application commences.

- Some colours may not be stable or accurate when exposed to external conditions, kindly refer to Ezi Technical Advisory Department when selecting colours.
- Coloured pigmented products may cause discolouration or highlight efflorescence under external weather conditions in a certain period of time; which is a natural phenomenon.
- Applicators/users are responsible to determine suitability of grout; prior to actual application.

CHEMICAL RESISTANCE

Acids	Acetic Acid (20%)
	Boric acid
	Citric Acid
	Fatty Acids
	Maleic Acid
	Oleic acid
	Oxalic Acid
	Tannic Acid
	Tartaric Acid
	Carbonic Acid
	Hydrochloric acid, 20%
	Lactic Acid
	Phosphoric Acid
	Stearic Acid
Fuels	Diesel Fuel
	Gasoline
	Jet Fuel
	Kerosene
	Oil - Castor
	Turpentine
Solvents	Alcohol - Ethyl
	Alcohol - Isopropyl
	Alcohol - Methyl
	Phenol
	Xylene
	Toluene
	Hexane
	Dichloroethane

Alkalis	Ammonium Carbonate
	Ammonium Chloride
	Ammonium Hydroxide
	Ammonium Nitrate
	Ammonium Phosphate
	Ammonium Sulfate
	Barium Carbonate
	Calcium Chloride
	Copper Chloride
	Potassium Hydroxide
	Sodium Bicarbonate
	Sodium Chloride
	Magnesium Chloride
	Zinc Chloride
	Glucose
	Glycerine
	Lead acetate
Others	Beer
	Vinegar
	Urine
	Water - Distilled
	Water - Fresh
	Water - Sea, Salt
	Soaps

MATERIAL SAFETY INFORMATION

Ezi EPOXY GROUT (Part A and B) are irritant to eyes and skin and may cause sensitisation by skin contact. During the application, it is recommended to wear protective gloves and goggles. Ensure good ventilation when handling the chemicals. (For more detail please refer to Ezi MSDS)

When working with this product, recommended to follow the safety precaution below.



WEAR DUST MASK



WEAR SAFETY GOGGLES



WEAR HAND GLOVES



WEAR SAFETY SHOES



KEEP AWAY FROM CHILDREN

COMPANY INFORMATION

MANUFACTURED BY: Ezi MOTARTECH SDN. BHD. (874800-D)

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