

# 3.3 Ezi HYDROPEL GROUT

**WATER REPELLENT IMPROVED COLOURED CEMENTITIOUS GROUT FOR GROUT JOINTS UP TO 4mm**





MADE IN MALAYSIA

## DESCRIPTION

**Ezi Hydropol Grout** is a high performance, single-component Improved Coloured Grout; with special attributes of water repellent, reduced water absorption, minimize staining & high abrasion resistance. It is designed to fill joints 2 - 4mm wide between Ceramic Tiles, Porcelain Tiles, Homogeneous Tiles, Ceramic or Glass Mosaics; as well as Natural & Artificial Stone Slabs to internal wall & floor areas at wet or dry areas.

## MAIN CHARACTERISTICS

<b>High Compressive Strength</b>		<b>Narrow Tile Joints Up To 4mm</b>
<b>Water Resistant Properties</b>		<b>Water Repellent Properties</b>

## USAGE

**Ezi Hydropol Grout** is suitable for the following usage:

- Filling joints between Ceramic Tiles, Porcelain Tiles, Homogeneous Tiles, Ceramic or Glass Mosaics; as well as Natural or Artificial Stone Slabs.
- Grouting or pointing joints up to 4mm wide.
- Suitable for use at internal wall & floor areas at wet or dry areas.
- Suitable to regrout worn existing tile joints; with a minimum depth of 4mm.

## COMPOSITION AND PERFORMANCE

**Ezi Hydropol Grout** is a composition of binder, fillers, special additive & pigments.

When mixed with Clean Water **Ezi Hydropol Grout** offers the following attributes

- Excellent bonding strength to edge of tiles
- Good compressive strength
- Good flexural strength
- Improve abrasion resistance
- Reduced water permeability
- Water repellent to minimize staining
- User Friendly
- Good workability
- Water resistant properties
- Minimal drying shrinkage
- Improve aesthetical appearance of tile finishing

### PRODUCT INFORMATION

Name	: Ezi Hydropol Grout
Packing	: 1 kg
Classification	: MS ISO 13007-3 Class CG2 WA
Shelf Life	: 12 months in normal dry ambient condition
Appearance	: Fine Powder (White, Ivory, Lemon, Light Grey & Dark Grey)
Dry Solid Content	: 100%
pH Value	: Alkaline
Toxicity Hazard	: No
Inflamability	: No

### APPLICATION DATA (Tested at approx. 25°C)

Mixing Ratio	: Approx. 1 pbw Water to 2.5 pbw Powder (Approx. 0.4 ltrs Water : 1 kg Powder)
Consistency of Mix	: Thin creamy paste consistency
Workability	: Smooth & easy to apply
Pot Life	: Approx. 45 minutes
Light Foot Traffic	: Approx. 24 hours
Setting Time	: Approx. 24 - 48 hours
Application Temperature	: >5°C to normal ambient temperature

### TECHNICAL DATA (Tested at approx. 25 °C)

	Results	Requirements
Abrasion Resistance after 28 days Air Dry	: 800 ± 100mm <sup>3</sup>	≤ 1000mm <sup>3</sup>
Flexural Strength after 28 days Air Dry	: 5.0 ± 010 N/mm <sup>2</sup>	≥ 2.5mm N/mm <sup>2</sup>
Compressive Strength after 28 days Air Dry	: 20 ± 010 N/mm <sup>2</sup>	≥ 15 N/mm <sup>2</sup>
Shrinkage after 28 days Air Dry	: 1.5 ± 010mm/m	≤ 3mm/m
Water Absorption		
After 30 minutes	: 1.5 ± 0.10g	≤ 2g
After 240 minutes	: 4.5 ± 0.10g	≤ 5g
Resistant to heat	: + 100°C	
Resistant to frost	: - 5°C	
Resistant to water	: Good	
Resistant to alkali	: Good	
Resistant to acid	: Poor	
Resistant to oil & solvents	: Fair	

Tested in accordance to the requirements of MS ISO 13007-3 Type CG2

## COVERAGE

### Consumption Table

Size of tile (mm)	Width of Tile Joint (mm)	
	2	3
20 x 20 x 4	1.36kg / m <sup>2</sup>	2.04kg / m <sup>2</sup>
50 x 50 x 5	0.68kg / m <sup>2</sup>	1.02kg / m <sup>2</sup>
100 x 100 x 7	0.48kg / m <sup>2</sup>	0.71kg / m <sup>2</sup>
150 x 150 x 8	0.36kg / m <sup>2</sup>	0.54kg / m <sup>2</sup>
300 x 300 x 8	0.18kg / m <sup>2</sup>	0.27kg / m <sup>2</sup>
300 x 600 x 9	0.15kg / m <sup>2</sup>	0.23kg / m <sup>2</sup>
400 x 400 x 9	0.15kg / m <sup>2</sup>	0.23kg / m <sup>2</sup>
600 x 600 x 10	0.11kg / m <sup>2</sup>	0.17kg / m <sup>2</sup>
800 x 800 x 10	0.08kg / m <sup>2</sup>	0.13kg / m <sup>2</sup>

## APPLICATION PROCESS

### (1) Preparation of Joints:

- Allocate minimum tile joints of 2 - 3mm wide when fixing tiles.
- Allow Adhesive Bed to set for 24 - 48 hours before grouting commences.
- Joints must be dry and free of containinants eg. dust, loose particles, grease, laitance etc.

### (2) Mixing Method:

- **Ezi Hydropel Grout** requires mixing with Clean Water only.
- Gradually add the Grout Powder into water and stir consistently for between 4 - 6 minutes.
- To obtain a creamy paste mortar with good consistency; mix using a slow speed mechanical mixer.
- As **Ezi Hydropel Grout** contains special hydrophobic chemicals; it will take some time before a creamy homogenize paste mortar is attained.
- Mixing dosage is approx. 1kg Grout Powder to 0.4 ltrs Clean Water

### (3) Application of Grout:

- Always apply the grout mortar paste to small areas at a time
- Apply the grout mortar paste into the joints with a grout float or rubber squeegee
- Ensure that the grouting mortar is well compacted into the tile joints; to ensure efficient performance

### (4) Cleaning & Finishing:

- Promptly remove or cleanse residual grouting mortar from tile surface before it hardens; with a clean damp cloth or sponge.

- When the grout has become sufficiently firm; lightly polish the tile surface with dry cloth to remove grout haze.
- Allow the grout to set for 48 hours (preferably longer) before it is subjected to normal service condition.

### Important Note:

- When regrouting existing tile joints that has worn out; ensure that the old grout is either totally removed or ensure that there is a minimum depth of 4mm.
- Any staining elements that comes in contact with **Ezi Hydropel Grout** surface should be promptly dab or wipe off within 10 - 15 minutes. Avoid prolong exposure.
- For external areas or areas under total water immersion (eg. swimming pool etc.); use Ezi Grout Fine incorporating EziMix GT-1 for enhanced performance.
- Avoid using excessively wet cloth or sponge to clean residual grout as it will affect the final apperance of the grout.
- Colour pigment in Coloured Grout may cause staining & discolouration of certain tiles or stone slabs; therefore a trial should be conducted to check ease of cleaning & compatibility before actual application commences.
- Certain colours may not be stable when used in external condntion; therefore verify its suitability with Ezi Technical Dept.
- Coloured pigmented product may discolour or highlight efflorescence under external weather condition after a period of time; which is a natural phenomenon.
- Applicators or users are responsible to determine the suitability of grout; prior to actual application.

### MATERIAL SAFETY INFORMATION

A non-toxic, cement-based product which is considered non-hazardous in normal usage. Avoid inhalation, ingestion, skin & eye contact. For more details please refer to Ezi Material Safety Data Sheet.

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



### COMPANY INFORMATION

#### MANUFACTURED BY :

Ezi MOTARTECH SDN. BHD. 200901031690 (874800-D)

#### Factory Address

**PERAK** PT990, 2 ½ KM Off Jln Simpang Pulau-Lahat,  
31300, Kampung Kepayang, Perak Darul Ridzuan.

#### Sales Office

**Penang** Tel: +604-658 8817 Fax: +604-658 8818  
**Perak** Tel: +605-357 5818 Fax: +605-357 5818  
**K.L.** Tel: +603-6277 3709 Fax: +603-6272 3760

#### Ezi Technical Advisory Centre

Tel: +6012-431 8221 E-mail: technical@ezi-fix.com

For more information please log on to: [www.ezi-fix.com](http://www.ezi-fix.com)