

1.11 Ezi MOSAIC FIX & GROUT

DOUBLE FUNCTIONS IMPROVED CEMENTITIOUS ADHESIVE FOR CERAMIC MOSAICS, GLASS MOSAICS & DECORATIVE STONES



DESCRIPTION

Ezi MOSAIC FIX & GROUT is a double functions, single part, flexible, latex-modified, coloured, improved cementitious adhesive (C2) and cementitious grout (CG1), which can be used for tiling and grouting.

Conforming to the requirement of MS ISO 13007-1, classified as type C2 and MS ISO 13007-3, classified as type CG1.

MAIN CHARACTERISTIC

Double Functions		Good Bonding Strength	
Water Resistance Properties		Various Application Areas	

USAGE

Suitable to use for :

- variety of ceramic mosaics, glass mosaics, decorative stone, wide range of ceramic tiles and natural stones.
- fixing and grouting - double functions.
- thin-thick bed 3 - 6 mm, and up to 12 mm in small isolated areas.
- internal and external, wall and floor, dry and wet areas including water immersion areas.

Note: - Highly recommended to mix Ezi MOSAIC FIX & GROUT with EziMIX F&G PLUS to achieve optimum performance for installation of low water absorption tiles ($\leq 0.5\%$) in very demanding situation (e.g. swimming pool, shower room, etc.).



COMPOSITION AND PERFORMANCE

Ezi MOSAIC FIX & GROUT consists of grey or white cement, graded washed silica sand, colour pigments and special additives.

Ezi MOSAIC FIX & GROUT offers the following benefits when mixed with clean water:

- Increase Efficiency of Installation
- Good Bonding Strength
- User Friendly
- Good Workability
- Non-Slump Properties
- Prevent Mixing Error On Site
- Water Resistance Properties
- Reduce Drying Shrinkage

PRODUCT INFORMATION

Name	: Ezi MOSAIC FIX & GROUT
Packing	: 25 KG
Classification	: ISO 13007-1 Class C2 and ISO 13007-3 Class CG1
Shelf Life	: 12 Months in Cool and Dry Condition
Appearance	: Grey Fine Powder
Dry Solid Content	: 100%
pH Value	: Alkaline
Toxicity Hazard	: No
Inflammability	: No

APPLICATION DATA (Tested at approx. 25 °C)

Mixing Ratio	: 3 pbw. Ezi MOSAIC FIX & GROUT to 1 pbw. water <small>(7-8 litre water/EziMIX F&G PLUS to 25 kg Ezi MOSAIC FIX & GROUT)</small>
Consistency of Mix	: Non-Slump Creamy Paste Form
Coverage	: Approx. 8 - 9 m ² per bag (at 3 mm bed thickness)
Bed Thickness	: Recommended 3 - 6 mm
Slip Resistant	: Excellent
Workability	: Good (Smooth & Non-Slump)
Open Time	: Approx. 15 - 20 minutes
Adjustability Time	: Approx. 15 - 20 minutes
Pot Life	: Approx. 3 - 4 hours
Light Foot Traffic	: Approx. 24 hours
Setting Time	: Approx. 24 - 48 hours
Application Temperature	: Between +5 °C and at Normal Ambient Temperature

TECHNICAL DATA (Tested at approx. 25 °C)

Tensile Adhesion Strength after 28 days	Result	Requirement
- Air Dry	: 1.8 ± 0.10 N/mm ²	≥ 1.0 N/mm ²
- Water Immersion	: 1.0 ± 0.10 N/mm ²	≥ 1.0 N/mm ²
- Heat Aging	: 1.1 ± 0.10 N/mm ²	≥ 1.0 N/mm ²
Resistance to Heat	: + 100 °C	
Resistance to Frost	: - 5 °C	
Resistance to Water	: Good	
Resistance to Alkalis	: Good	
Resistance to Acids	: Poor	
Resistance to Oil and Solvent	: Fair	

Tested in accordance to the requirement of MS ISO 13007-1 Type C2
MS ISO 13007-3 Type CG1

SUITABLE SUBSTRATES

- (i) **Concrete** - It must be aged for 6 weeks. Direct fixing onto concrete may be taken provided the surface is flat, cured and free of contamination. Surface primer may required for direct fixing.
- (ii) **Brick Wall or Lightweight Hollow Blocks** - It must be aged for 4 weeks and leveled with cement-sand render prior to fixing tiles. Direct fixing is not recommended.
- (iii) **Aerated Lightweight Concrete Blocks (ALC)** - It must be aged for 4 weeks and leveled with cement-sand mortar (e.g. Ezi ALC PLASTER) prior to fixing tiles. Direct fixing on even surface can be done by using Ezi MOSAIC FIX & GROUT + EziMIX F&G PLUS. Prime surface of ALC Blocks with Ezi ALC Primer before direct fixing.
- (iv) **Cement-Sand Render or Screed** - Allow new cement-sand render or screed to cure for 2-3 weeks before tiling. The rendering or screeding mortar mix ratio should ideally be 1 part of cement : 3-4 parts of sand.
- (v) **Existing Tiles or Natural Stones** - Existing surface must be dry, sound and free of contaminations. Hollow sections should be removed and made good before direct fixing with Ezi MOSAIC FIX & GROUT + EziMIX F&G PLUS.
- (vi) **Existing Vinyl Tiles** - Existing surface must be dry, sound and free of contaminations. Prime surface with EziMIX SBR BOND, before direct fixing with Ezi MOSAIC FIX & GROUT + EziMIX F&G PLUS.
- (vii) **Building Boards** - For example plywood, chipboard, cement-fibre board etc. must be sufficiently braced to provide a rigid substrate. Prime surface with EziMIX SBR BOND, before direct fixing with Ezi MOSAIC FIX & GROUT + EziMIX F&G PLUS.
- (viii) **Timber Floor** - It must be rigid, strong and strengthened by overlaying it with a 15mm thick marine plywood, screw fixed at 300mm centers to the joists. Tile Installation method is similar with "Building Board".

Note :- Not suitable for use on substrates subjected to high shrinkage, movement or vibration or to install moisture sensitive materials.

- Not recommended to tile over metal, paint and skim coat plaster.

- Installation in very demanding situations where greater bonding strength and flexibility are required, recommended to mix Ezi MOSAIC FIX & GROUT with latex admixture to replace gauging water.

INSTALLATION PROCESS

(1) Preparing the Substrate

- Substrate must be dry, flat and free of contaminants, e.g. dust, grease, laitance, oil, paint, etc.

Note : dampen the surface with water only when it has become heated from exposure to sunlight.

- For various substrate preparation, kindly refer to "SUITABLE SUBSTRATES".

(2) Preparing the Mix

- Mix 3 parts of Ezi MOSAIC FIX & GROUT with 1 of part clean water or EziMIX F&G PLUS by weight, until a smooth, non-slump paste is achieved. Mechanical mixing is recommended.

(3) Spreading the Mix

- Mosaic tiles are to be fixed dry, they should not be soaked.

- Pre-grout mosaic joints with Ezi MOSAIC FIX & GROUT.

- Spread the paste to the substrate at bed thickness of 3 - 6 mm (may vary depending on tile size and weight) with appropriate notched trowel. It is also applicable up to 12 mm in small isolated areas.

- Spread no more than 1 m² at a time to prevent Skin-Over. In normal ambient temperature and humidity conditions, the open time of Ezi MOSAIC FIX & GROUT is approx. 20 minutes.

Note : Unfavourable weather conditions (e.g. extremely hot, strong wind, high temperature, etc.) or highly absorbent substrate can drastically reduce the open time.

(4) Installing the mosaic tiles

- Immediately fix pre-grouted mosaic sheet onto adhesive bed, firm pressure, and followed by slight twisting action to ensure good coverage and contact of the adhesive (Solid Bed Fixing).

- Touch adhesive bed periodically to ensure that a skin does not form on the surface of the spread adhesive, which should stay fresh. If not (where adhesive bed is no longer sticky due to Skin-Over), re-trowel the adhesive bed.

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- Dampen the paper with water to ease removal, once the adhesive bed is cured or firmed.

- Provide joints at approx. 2 - 3 mm wide (or as per supplied).

- Remove excessive adhesive-grout from mosaic surface.

- Tiling installed with Ezi MOSAIC FIX & GROUT must be protected from water & rain for at least 24 hours.

- Any gap or void in the mosaic installation can be re-grouted using similar material.

Note :- Grouting at high demanding areas such as swimming pool, bathroom, kitchen, etc. are highly recommended to mix Ezi MOSAIC FIX & GROUT with EziMIX F&G PLUS to further enhance its performance.

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

- Mosaic joints can be grouted on the following day, using Ezi MOSAIC FIX & GROUT; instead of pre-grouting.

- Colour variation or crack may occur due to reasons beyond manufacturer control, e.g. excessive water for mixing and cleaning, cleanliness of mixing water, site condition, mosaic porosity variation, efflorescence, etc.

- Applicators/users have the responsibility to determine suitability of grout; prior to actual application.

MATERIAL SAFETY INFORMATION

A non-toxic fine particle powdery cement-based product, that can be safely approach under normal condition of use, but prevent from inhaling, ingestion and avoid from entering eyes. When mixed with water it produces alkaline paste form and prolonged contact with unprotected parts of body should be avoided. (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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