Ezi SOLUTIONS TO TILE FIXING SYSTEM

1.12 Ezi CTFix

GOOD PERFORMANCE CEMENTITIOUS TILE ADHESIVE FOR CERAMIC WALL AND FLOOR TILES

MADE IN MALAYSIA

PRODUCT INFORMATION

Name	:	**Ezi CTFix**
Packing	:	**25 KG**
Classification	:	**ISO 13007-1 Class C1**
Shelf Life	:	**9 Months in 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	:	**25-27pbw. of water for 100pbw. of powder** (6.25-6.75 litres of water/latex admixture for 25KG of powder)
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 Resistance	:	**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	:	**From +5 °C to Normal Ambient Temperature**

TECHNICAL DATA (Tested at approx. 25 °C)

Tensile Adhesion Strength after 28 days		Result	Requirement
- Air Dry	:	0.7 ± 0.10 N/mm^2	≥ 0.5 N/mm^2
- Water Immersion	:	0.5 ± 0.10 N/mm^2	≥ 0.5 N/mm^2
- Heat Aging	:	0.5 ± 0.10 N/mm^2	≥ 0.5 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	

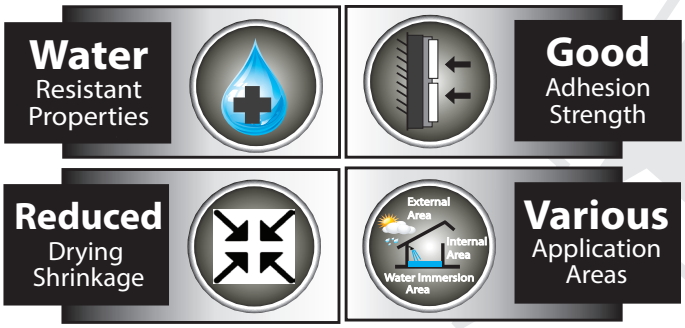
Tested in accordance to the requirements of MS ISO 13007-1 Type C1

DESCRIPTION

Ezi CTFix is good performance, water resistant, normal (1) cementitious adhesive (C).

Conforming to the requirements of MS ISO 13007-1, classified as type C1.

MAIN CHARACTERISTICS



USAGE

Suitable to use for :

- ceramic tiles and mosaic tiles, for example: porous tiles, porcelain tiles, vitrified homogeneous tiles, glass mosaics, ceramic mosaics, etc.
- adhesive bed thickness in between 3 - 6 mm, and up to 12 mm for small isolated areas.
- variety of substrates (refer to SUITABLE SUBSTRATES).
- internal and external, wall and floor, dry and wet areas including water immersion areas.

Note : - *Highly recommended to mix Ezi CTFix with EziMIX STAR AD-1 to achieve optimum performance for installation of low water absorption tiles (≤0.5%) in very demanding situations (e.g. swimming pools, bathrooms, etc.).*

COMPOSITION AND PERFORMANCE

Ezi CTFix consists of grey cement, graded washed silica sand and selective additives.

Ezi CTFix offers the following benefits when mixed with clean water:

- **Good Adhesion Strength**
- **Reduced Drying Shrinkage**
- **Water Resistant Properties**
- **Minimised Efflorescence**
- **Prevents Mixing Errors On Site**
- **Good Workability**
- **Non-Slump Properties**
- **User Friendly**

SUITABLE SUBSTRATES

(i) **Concrete** - It must be aged for 6 weeks. Direct fixing onto concrete may be adopted provided the surface is flat, cured and free of contamination. Surface primer may be required for direct fixing.

(ii) **Brick Wall or Lightweight Hollow Blocks** - It must be aged for 4 weeks and levelled with cement-sand mortar prior to fixing tiles. Direct fixing is not recommended.

(iii) **Aerated Lightweight Concrete Blocks (ALC)** - It must be aged for 4 weeks and levelled with cement-sand mortar (e.g. Ezi ALC PLASTER) prior to fixing tiles. Direct fixing on even surface can be done by using Ezi CTFix + EziMIX STAR AD-1. 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 should ideally be 1 part cement to 3-4 parts of sand.

(v) **Existing Tiles or Natural Stones** - Existing surface must be dry, sound and free of contamination. Hollow sections should be removed and made well before direct fixing with Ezi CTFix + EziMIX STAR AD-1.

(vi) **Existing Vinyl Tiles** - Existing surface must be dry, sound and free of contamination. Prime surface with EziMIX SBR BOND, before direct fixing with Ezi CTFix + EziMIX STAR AD-1.

(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 CTFix + EziMIX STAR AD-1.

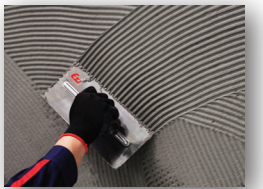
(viii) **Timber Floor** - It must be rigid, strong and strengthened by overlaying it with a 15 mm thick marine plywood, screw fixed at 300mm centres to the joists. Tiling method is similar to tile installation onto *"Building Boards"*.

Note : - *Not suitable for use on substrates subjected to high shrinkage, movement, vibration or to install moisture sensitive materials.*
- *Not recommended to tile over metal, painted surfaces and skim coat plaster.*
- *Installation in highly demanding situations where greater adhesion strength and flexibility are required, recommended to mix Ezi CTFix with latex admixture to replace gauging water.*

INSTALLATION PROCESS

Make sure the surface is clean

Prepare the mix



Spread paste on the substrate

Spread paste on the back of tile

(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 Ezi CTFix with recommended mixing ratio until a smooth and non-slump paste is achieved. Mechanical mixing is recommended. Allow the paste to stand for approx. 10 minutes, then re-stir before using it.

(3) Spreading the Mix

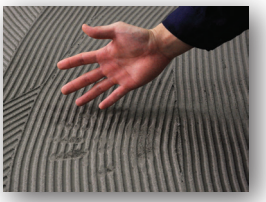
- Spread the paste to the substrate at bed thickness of 3 - 6 mm (may vary depending on tile size and weight) with appropriate notched trowel size. It is also applicable up to 12 mm in small isolated areas.

- For tiles size that is greater than 300 x 300 mm, spread the adhesive on the back of the tiles to ensure a complete coverage.

- Spread no more than 1 m^2 at a time to prevent Skin-Over. In normal ambient temperature and humidity conditions, the open time of Ezi CTFix is approximately 15 minutes.

Place tile onto the adhesive bed

Good coverage of the adhesive "Solid Bed Fixing"



Adhesive bed is no longer sticky - "**Skin-Over**"

Applying the grout

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 tiles

- Ceramic tiles must be fixed dry, prior soaking is not required. Recommended to use damp cloth to clean the dusty tile back.

- Tiles should be installed with a firm pressure, and followed by slight twisting action to ensure good coverage and contact of the adhesive (Solid Bed Fixing).

- Tiles must be installed on the fresh adhesive bed within its recommended open time before Skin-Over of the adhesive occurs, resulting in loss of its tackiness. If this happens, discard the affected adhesive bed and apply a fresh adhesive bed.

- Allocate tile joints of approximately 3 mm wide between tiles.

- Remove surplus adhesive from tile surface and joints before it hardens.

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

(5) Applying the Grout

- Grouting of tile joints with Ezi cementitious grout or epoxy grouts should commence at least 24 hours after adhesive had set. Setting time may be delayed on dense or impervious surfaces.

MATERIAL SAFETY INFORMATION

A non-toxic, cement-based product which is considered non-hazardous in normal usage. Avoid inhalation, ingestion, skin and eyes 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. (874800-D)

FACTORY ADDRESS
PENANG :1888, Jalan Lahar Bubur, Kepala Batas, 13200, Pulau Pinang.
IPOH : PT990, 2 ½ KM Off Jln Simpang Pulai-Lahat, 31300 Kampung Kepayang, Perak Darul Ridzuan.

SALES OFFICE
PENANG : +604-658 8817 +604-658 8818
IPOH : +605-357 5818 +605-357 5818
KL : +602-6277 3709 +603-6272 3760

Ezi TECHNICAL ADVISORY CENTRE
+6012-431 8221 technical@ezi-fix.com

For more information please log on to: www.ezi-fix.com

Note: Any advice, opinion, instruction or information is given only on the basis that the company and its employees, representative, agents or distributors, shall be under no liability for any loss or damage (including direct or indirect contingent or consequential loss or loss of profit) whatsoever in respect thereof. Although advice, opinion, instruction and information are believed to be accurate and complete no reliance should be placed upon the same as being applicable to any particular circumstances.