

## 4.7 Ezi POLYMER MODIFIED MORTAR

### MULTI-PURPOSE POLYMER MODIFIED MORTAR FOR PATCHING AND RENDERING

#### DESCRIPTION

**Ezi POLYMER MODIFIED MORTAR** is a high performance, polymer modified cement-sand mortar. Content of Ordinary Portland Cement, graded washed silica sand, special polymer and additives. Conform to the requirement of BS EN 1015.

#### PRODUCT INFORMATION

Name	: Ezi POLYMER MODIFIED MORTAR
Packing	: 40kg
Shelf Life	: 12 Months in Dry Condition
Appearance	: Grey Coarse Powder
Dry Solid Content	: 100%
pH Value	: Alkaline
Toxicity Hazard	: No
Inflammability	: No

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

Mixing Ratio	: Approx. 1 pbw. water to 5 pbw. Ezi POLYMER MODIFIED MORTAR (7-8 litres water to 40 kg of Ezi POLYMER MODIFIED MORTAR)
Consistency of Mix	: Creamy Paste Form
Coverage	: Approx. 27 kg/m <sup>2</sup> (for 15 mm bed thickness) Approx. 1.5 m <sup>2</sup> /40kg (for 15 mm bed thickness)
Bed Thickness	: Recommended 15 - 40 mm
Pot Life	: Approx. 2 - 3 hours
Initial Setting Time	: Approx. 10 hours
Final Setting Time	: 24 - 48 hours (depending on atmospheric condition)
Drying Period	: 1 - 2 weeks (12mm of bed thickness)
Application Temperature	: From +5 °C to Normal Ambient Temperature

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

Tensile Strength after 28 days (BS EN 1015-12 : 2000)	: 4.0 ± 0.10 N/mm <sup>2</sup>
Compressive Strength after 28 days (BS EN 1015-11 : 1999)	: 42 ± 1.00 N/mm <sup>2</sup>
Flexural Strength after 28 days (BS EN 1015-11 : 1999)	: 9.0 ± 0.10 N/mm <sup>2</sup>
Resistance to Heat	: +100 °C
Resistance to Frost	: -5 °C
Resistance to Water	: Good
Resistance to Alkalies	: Fair
Resistance to Oil & Solvent	: Fair

Tested in Accordance to the Requirement of BS EN 1015

#### USAGE

##### Suitable to use for :

- patching and repairing of concrete.
- general rendering
- water immersion areas including swimming pool.
- internal and external areas.

#### PERFORMANCE

- (i) High Adhesion Strength
- (ii) High Compressive Strength
- (iii) High Flexural Strength
- (iv) Good Abrasion Resistance
- (v) User friendly
- (vi) Good Workability
- (vii) Reduced Drying Shrinkage
- (viii) Minimised Efflorescence

#### INSTALLATION PROCESS

##### (1) Preparing the Substrate

- Substrate must be dry, flat and free of contaminants, e.g. dust, grease, laitance, oil, paint, etc.
- For smooth or dense concrete surface, a spatterdash application or mechanical key is recommended to provide an effective textured keys to receive rendering.
- High suction of background can deprive the rendering of water needed for its hardening. Wetting the clean wall with water is recommended before rendering.
- Honey combs must be hacked off to expose the sound concrete.
- Reinforcement should be clean and without rusting.

##### (2) Preparing the Mix

- Mix 5 parts of Ezi POLYMER MODIFIED MORTAR with 1 part of clean water by weight, until a smooth and creamy paste is achieved. Mechanical mixing is recommended.

##### (3) Spreading the Mix

- Apply Ezi POLYMER MODIFIED MORTAR with appropriate tools to achieve required thickness in layer(s).
- Ezi POLYMER MODIFIED MORTAR must be well compacted onto the substrate.
- Exposed reinforcement should be completely encapsulated by the mortar.
- Finally, let it cures for approximately 2 weeks before any further commencement.

#### COMPANY INFORMATION

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

**PENANG:** 80, Jalan Masjid Negeri, 11600 Penang, Malaysia.

**TEL :** +604-6588817

**FAX :** +604-6588818

**KUALA LUMPUR:** 2, Jalan Tembaga SD5/2H, Bandar Sri Damansara, 52200 Kuala Lumpur, Malaysia.

**TEL :** +603-62773709

**FAX :** +603-62723760

**Ezi TECHNICAL ADVISORY CENTRE:**

**TEL :** +6012-431 8221

**E-MAIL :** technical@ezi-fix.com

**WEBSITE :** www.ezi-fix.com

#### 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.



WEAR DUST MASK



WEAR SAFETY GOGGLES



WEAR HAND GLOVES



WEAR SAFETY SHOES



KEEP AWAY FROM CHILDREN