

Product Description

- High quality polymer modified cementitious dry mortar.
- Pre-mixed mortar with good insulation property.
- Typical thickness is about 10-25mm.
- Complies the fire protection requirement of BS476:Part22 (2 hours rated).

Typical Usage

- Exterior/Interior concrete or/and block wall plastering.
- For external/internal application.

Features and Benefits

- Insulation
- Fire resistance
- Consistent quality
- Simple and easy to use
- Reduce water penetration
- High productivity rate
- Efficient operation
- Environmental product

Technical Data

Product Characteristics	OPTIMIX EI348
Compressive Strength at 28 days	> 10 MPa
Flexural Strength at 28 days	> 4 MPa
Bond to Concrete at 28 days	> 0.7 MPa
Thermal Conductivity	0.38 W/mK
Pot Life	60 minutes
Typical Mixing Water	8.5 – 9 litres
Wet Density	1300 kg/m ³
Coverage	1.0 kg/mm/m ²
Packaging	25 kg per bag
Shelf Life	12 months

Note: The above are typical laboratory test results at 28 days and can vary slightly depending on ambient and substrate conditions during application.



Testing Methods

Compressive and Flexural Strength Test	BS EN196-1
Pull-off Test	HKHS/MTS (2000), Part D 2.1.15
Thermal Conductivity	BS874-2

Note: The above were according to the in-house modification of the corresponding testing methods

Surface Preparation

- Substrate must be clean, free from loose particles, oil, grease and other contaminants.
- It is recommended to pre-wet the substrate with potable water overnight or before application if the weather and/or surface are under a very dry condition.

Mixing & Application

- Mix one bag of **OPTIMIX EI348 Exterior Insulation Mortar** dry powder with 8.5 – 9.0 L potable water.
- Mechanical mixing with slow speed drill fitted with a suitable paddle is recommended.
- Mix the mixture for about 5 minutes or until a lump-free homogenous mix is achieved.
- Spread the mixture on the substrate to required thickness with a trowel.

Curing

With the excellent water retention properties of the **OPTIMIX EI348 Exterior Insulation Mortar**, water curing is normally not necessary. Self-curing of the applied mortar is considered adequate. Water curing is only required under extremely hot conditions or when excessive rapid dry occurs.

Health and Safety

OPTIMIX EI348 Exterior Insulation Mortar is alkaline in nature and can cause irritations to persons with sensitive skin. During use, avoid inhalation of dust and contact with skin and eyes. Wear suitable protective gloves and masks while handling the product. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. This product is non-toxic and is not flammable.

Storage

- Store in dry conditions in the original unopened bags.
- Store out of direct sunlight, clear of ground on pallets protected from rainfall.
- Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.