

REC PREMIX FM-273

One coat fiber reinforced cement plaster

PRODUCT

Rec Premix FM- 273 is a fiber reinforced, portland cement based plaster containing silica fume, fibers and other admixtures that give a high strength and shrinkage controlled plaster. It is specially designed for use in one coat stucco applications to be sprayed onto dried and cured shotcrete used in Insulated Sandwich Panel System (ISPS).

PROPERTIES

- High strength
- Low rebound
- Normal setting
- Allows for thicker single pass applications
- Prevents steel reinforcements from corrosion
- Reduced permeability

SCOPE OF USE

Rec Premix FM- 273 can be used in residential and light commercial areas to any surface suitable for accepting fresh plaster: Shotcrete, cement based substrate, old concrete are common substrate.

CHARACTERISTICS

Active ingredients	hydraulic binders, synthetic fibers, without any chlorides or metal particles
Appearance	Grey Powder
Powder density	1.28
Grain size	0 to 2.5 mm
Mixing water	9 to 10 liters / 50 kg bag 4.5 to 5 liters / 25 Kg bag
Yield	30 liters / 50 kg bag 15 liters / 25 Kg bag
Thickness	5 to 30 mm in one coat
Fresh density ASTM C 185- 02 section 5.2	Around 2.000
Resistance to fire as per BS EN 998-1	Class A1

Tests performed under laboratory conditions.

*Compressive Strength - ASTM C109 M at 22°C± 1:	1 day	7 MPa
	7 days	21 MPa
	28 days	25 MPa

*Flexural Strength - BS EN 196-1 at 22°C± 1:	1 day	1.5 MPa
	7 days	2.5 MPa
	28 days	5 MPa
*Adhesion Strength: 28 days (BS 1881 Part 207)		> 0.5 MPa

*Results obtained at 19% water under lab condition at 22°C± 1.

INSTRUCTIONS FOR USE

SUBSTRATE PREPARATION

the shotcrete should be installed, dried and cured.

PRODUCT PREPARATION

Each bag of 50 kg **Rec Premix FM- 273** requires around 9.5 liters of clean water. A 25 kg will need approx. 4.75 liters of clean water.

PRODUCT APPLICATION

Rec Premix FM- 273 should be applied using the wet- mix process. **Rec Premix FM- 273** is pre-mixed before being loaded into a hopper, from which it is pumped through the delivery hose and spray- applied with compressed air added at the nozzle via a separate hose.

Rec Premix FM- 273 must be used within one hour from mixing. Usually 15 mm thickness is required to fill any cracks, grooves or other imperfections in the shotcrete to ensure complete coverage. For thickness more than 30 mm, it is recommended to apply **Rec Premix FM- 273** in 2 layers. When the first coat is applied it must be directly roughened to increase bonding with the second coat.

The finishing of the top layer will depend on the decorative finishing that will be associated to the system. **Rec Premix FM- 273** can be smoothed with a steel trowel or kept rough using wooden or plastic trowel.

Re-mixing with an extra amount of water is forbidden. Protect the surface with properly secured plastic sheeting. Ideal application temperature is between +5 °C and +35 °C.

STORAGE

12 months after manufacturing date in original and non- open packaging, under cover, in dry condition, away from humidity, protected from extreme temperatures and direct sunlight.



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SAFETY PRECAUTIONS

The product contains cement powders which, when mixed with water, release alkalis that could be harmful to the skin. It is preferable that the application be done in a ventilated area, and to wear protective gear for hands, eyes and respiratory system and to avoid breathing of the dust. Splashes on the skin should be washed away by cleaning with soap and water. In case of contact with eyes, wash thoroughly with clean water. If swallowed, do not induce vomiting, in both cases seek medical attention. The product is non-flammable.

DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use, and that this Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's office in your location.

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