

LAVAFINISH FF

Single Component Polymer Modified Cementitious Fairing Coat

Description:

LAVAFINISH FF is a Polymer modified cementitious fairing mortar composed of high resistance cements, fume fillers and special additives. It is designed to give thin layers to produce a fair faced appearance, to concrete or masonry surfaces. When mixed with water, the product becomes high consistent, workable mortar that could be applied both horizontally and vertically.

LAVAFINISH FF produces mortar that could be applied directly to fill in pores, blowholes and blemishes over a concrete surface, for thickness 3.0 mm. It has excellent thermal compatibility with concrete and compatible with all range of concrete repair products of MATEX

Uses:

LAVAFINISH FF is designed for applications on concrete or masonry surfaces:

- Thin coat over precast concrete that will receive protective coatings
- As a general re-profiling layer over large areas of concrete surfaces.
- For filling pinholes or porous surfaces prior to over coating.
- As a minor repair product for defected concrete elements.
- For cosmetic repair fairing coat after a major concrete repair.
- Re-coatable and receives other cement products.

Advantages:

- Excellent bond to all concrete supports.
- Single compound requires only on site addition of water.
- Smooth, easily producing fair faced finish.
- After hardening, it creates an impermeable layer, resistant against atmospheric gas.
- Resistant against salts, chloride.
- Shrinkage compensated with no cracking

- Highly polymer modified. Curing will not be necessary.
- To produce a smooth fair faced surfaces prior to applying decorative coating.
- Very smooth finish which will create a suitable substrate for decorative purposes.
- Applicable in low thicknesses.

Instructions for Use:

Surface Preparation:

Preparation of cementitious surfaces for touch up should ensure the removal of all grease, contaminants, oil, curing compound, and loose material. For old concrete profiling, or for filling honeycombed areas, Use a steel brush to remove contaminants, laitance and weak cement particles.

The cleaned areas should be blown clean with oil-free compressed air before continuing Soak the substrate with water, and allow excess water to evaporate. Application of repair mortars over dry concrete surfaces without saturation with clean water "SSD" will result in failure of product and defect in repair.

Mixing:

To prepare the mortar, pour 6.5 to 7.0 liter of clean water into container and add slowly LAVAFINISH FF powder bag content (20 Kg). Mix using spiral paddle fitted to slow speed heavy duty mixer for few minutes till a homogeneous lump free consistency mix is achieved.

Always add powder to water and not water to powder. Avoid adding additional water after the mixture is homogenous and ready for use. Water addition may vary slightly according to both the ambient temperature and the desired consistency of the mix, but it should not exceed 7.0 litres Small quantities can be mixed using a suitable mixing drum or bucket. If mixing small quantities by hand, LAVAFINISH FF should be volume-batched. Add 3

LAVAFINISH FF

volumes of the LAVAFINISH FF powder to one volume of potable water. This should be mixed vigorously until fully homogeneous

Application:

Apply LAVAFINISH FF manually with a trowel or spatula to the saturated surface of concrete "SSD". The applicable layer thickness of the product is 3.0 mm and can be applied in more than one layer. Leave the surface rough if the application of following layers is needed.

When smoothing the final coat, ensure to use very clean trowel or spatula to avoid scratching in the fairing coat. do not spray water on semi dry surface to facilitate the smoothing of the surface. Damp sponges or plastic floats may be used to achieve a desired surface texture, but care should again be taken not to overwork the surface

Curing is not generally required. However, under extreme conditions - high temperatures and drying winds - it may be required to cure with water or by applying CEMCURE WB

Standards:

LAVAFINISH FF conforms to:

- ASTM 109
- ASTM C 580, ASTM C 1583

TECHNICAL PROPERTIES:	
Appearance	: Grey or White Powder
Density	: 1.35 – 1.40 Kg/Lt. at 20°C
Workability time	: 40 minutes at 20°C
Yield	: 13.0 liter / 20 Kg bag
Adhesion to concrete	: $\geq 1.5 \text{ N / mm}^2$
Compressive Strength	: 22 N / mm ²
Coefficient of Thermal Expansion	: 7 to 10 x 10 ⁻⁶ per °C
Application Thickness	: 3.0 mm
Flexural Strength	: 6.0 N / mm ² at 28 days

Packaging:

LAVAFINISH FF is packed in bags of 20Kg.

Shelf Life:

LAVAFINISH FF can be utilized within 12 months of production date if stored in proper conditions in unopened original packing.

Cleaning:

Clean tools with water prior to product hardening.

Coverage:

LAVAFINISH FF achieves coverage of 1.4 Kg/ square meters for 1mm thickness.

Storage:

The product must be stored in dry and sheltered place and into the original well closed bag

Recommendations:

- Protect the surface from rapid evaporation of water.
- The product should not be used when the temperature is below 5°C. Do not proceed with the application when rainfall is imminent unless in a sheltered or protected situation.
- The product should not be exposed to moving water during application or prior to initial set
- for temperatures above 40 C, the following guidelines are adopted as good working practice:
 - i. Store unmixed materials in a covered store to avoid exposure to direct sunlight.
 - ii. Keep equipment cool, and arrange shade protection for the working area.
 - iii. Try to avoid application during the hottest times of the day, and in direct sunlight.

Health and Safety:

LAVAFINISH FF is a cement-based product. Avoid contact with skin or eyes. Provide adequate ventilation in working place to avoid inhalation of dust.

MATEX Rev.06-0121

This technical data sheet is not considered as local building codes. It shall be used as general reference for the product, based on our current knowledge and experience. However the company do not accept any liability arising from the use of its products as it has no direct control on how and where the product is applied.

