

LAVAFINISH FF

Single Component Polymer Modified Cementitious Fairing Coat

Description:

LAVAFINISH FF is a polymer modified cementitious fairing mortar composed of high resistance cements, 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 highly consistent, workable mortar that could be applied both horizontally and vertically.

LAVAFINISH FF produces mortar that can be applied directly to fill in pores, blowholes and blemishes over a concrete surface, for thickness from 0.5 mm to 3.0 mm. It has excellent thermal compatibility with concrete and compatible with all range of concrete repair of MATEX product range.

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 5.2 to 5.6 liter of clean water into mixing container and add slowly, full 20 kg bag of LAVAFINISH FF, while mixing continuously, using a slow speed heavy duty mixer fitted with a spiral paddle (max: 500 rpm) for a minimum 3 minutes till a homogeneous lump-free consistency mix is achieved. Avoid entrapment of air.

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

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ambient temperature and the desired consistency of the mix, but it should not exceed 7.0 liters. 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 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 from 0.5 mm to 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 use light water fogging for 48 hours or by applying CEMCURE WB.

Standards:

- EN 1504-9, 196-1
- ASTM 109, C580
- BS 1881-207

TECHNICAL PROPERTIES	
Appearance	Gray or white powder
Density	1.70 ± 0.05 kg/lit@25°C
Workability Time	>40 minutes at 20°C
Application Thickness	0.5 mm-3.0 mm
Adhesion to concrete (BS 1881 – 207)	≥ 1.5 N / mm ²
Compressive Strength (ASTM 109)	>22 N/mm ²
Flexural Strength (ASTM 580)	>6.0 N/mm ² at 28 days

Coefficient of Thermal Expansion	7 to 10 x 10 ⁻⁶ per °C
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*Values indicated may vary depending on the environment and conditions of the material. Figures given are tested according to standard laboratory conditions.

Packaging:

LAVAFINISH FF is supplied in 20 kg high quality recyclable paper bag

Coverage:

LAVAFINISH FF achieves coverage of 1.65 Kg/ square meters for 1mm thickness.

*Coverage rate is an approximate value, and subject to actual site conditions.

Yield:

16.0 liter per 20 kg bag of LAVAFINISH FF when mixed with 5.6 liter water.

Storage:

The product must be stored in dry and sheltered place and into the original packing away from direct sunlight and high humidity levels.

Shelf Life:

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

Cleaning:

Clean tools with water prior to product hardening. Hardened materials can only be removed mechanically.

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.

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- The product should not be exposed to running 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:

- Avoid contact with eyes and skin. Wear suitable protective clothing such as coveralls, goggles, dust mask and gloves. Use barrier cream. Ensure that there is adequate ventilation. Do not breathe vapor or spray mist.

FIRST AID:

Eyes:	In the event of accidental splashes, flush with warm water and seek medical advice.
Skin:	Wash skin thoroughly with soap and water
Inhalation:	Remove to fresh air, keep patient rested
Ingestion:	Do not induce vomiting. Seek immediate medical attention.

For further safety information, please refer to LAVAFINISH FF Material Safety Data Sheet.

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