

MONNELI BETOFINISH ULTRA

Single Component Polymer Modified Fairing Coat (1mm or less)

Product Description

BETOFINISH ULTRA is a cementitious polymer modified 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 easily workable mortar that could be applied both horizontally and vertically for coatings that are 1mm thick or less.

BETOFINISH ULTRA produces cosmetic mortar that could be applied directly to fill in pores, blowholes and blemishes over a concrete surface.

Uses

BETOFINISH ULTRA 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
- 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 is executed in association with any of Colmef cementitious concrete repair products

Advantages

- Excellent bond to all concrete supports
- Requires only on site addition of water
- High impact resistance and excellent adhesion to concrete
- Smooth, easily producing fair faced finish
- After hardening, it creates an impermeable layer, resistant against atmospheric gas, frost and thaw cycles

- Resistant against salts, chloride and chemical attack
- 2 cm layer of hardened product is resistant against CO₂ diffusion in same degree as 80 cm layer of concrete
- No chloride content

Instructions for Use

Surface Preparation

The support must be perfectly cleaned, free from dust, inconsistent parts, traces of form stripping oils, efflorescence, rust etc. Saturate the surface with water to eliminate possible water absorption at the moment of application.

Mixing

To prepare the mortar, pour 8.5-9.0 liters of water into a clean container and add slowly the content of BETOFINISH ULTRA (25kg). Mix using spiral paddle in slow speed heavy duty drill for few minutes till a homogeneous lump free consistency mix is achieved. Always add powder to water and not the other way around.

Application

Apply BETOFINISH ULTRA manually with spatula or steel trowel with a maximum thickness of 1 mm per coat. Care should be taken not to overwork the surface.

Curing

Curing is not generally needed however under extreme conditions - high temperature and drying winds, BETOCURE AR shall be used as a curing compound.

Cleaning

BETOFINISH ULTRA should be removed from tools and equipment and mixers with clean water immediately after use. Cured material should be removed mechanically.

Recommendations

- Protect the surface from rapid evaporation of water, variations of temperature increase or reduce the initial and final setting time of the product
- Use cool water to keep the mixed mortar temperature below +30°C
- Do not expose packing to the direct sun-rays
- In warm weather, store the material in cool place

Yield

18.75 Liters / 25 kg bag. Consumption would be 1m²/Liter for 1mm thickness.

Packaging

BETOFINISH ULTRA is packed in bags of 25 kg.

Storage

The product must be stored in dry and sheltered place and into the original well closed bag. In these conditions the product will have a shelf life of 12 months.

Technical Data

Properties	Results
Appearance	Grey powder
Density at 25°C	1.8–1.85 kg/L
Compressive strength at 28 days (ASTM C579)	16 N/mm ²
Flexural strength at 28 days (ASTM C580)	3.5 N/mm ²
Tensile strength after 28 days (BS 6319 Part 7)	2.5 N/mm ²
Adhesion to concrete	> 1.5 N/mm ²
Water penetration (BS EN 12390 Pt. 8)	<10mm
Drying shrinkage at 28 days (ASTM C157-93)	0.041%
Coefficient of thermal expansion (BS 6431)	9 x10 ⁻⁶ /°C
Rapid chloride permeability (ASTM C 1202)	Moderate
Workability time at 25°C	40 minutes

Test performed at 25°C, 50% of relative humidity and in absence of ventilation.

All values are subject to 5-10 % tolerance

Health & Safety

BETOFINISH ULTRA can be harmful to skin as it contains cement powders which may releases alkalis when mixed with water. During application, wear appropriate protective clothing, goggles, gloves and respiratory equipment if necessary. In case of contact with skin, rinse with water and again wash thoroughly with soap and water. In case of contact with eyes, rinse with plenty of water and seek medical advice accordingly. If ingested, obtain medical attention immediately. Do not induce vomiting.

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