

MonniRep F6

Single component Polymer Modified Fairing Coat (3mm-6mm)

Product Description

MonniRep F6 is a cementitious polymer modified mortar composed of high resistance cements, silica sand and special additives. It is designed to give thin layers to produce a fair faced appearance, to concrete or masonry surfaces. When mixing with water the product becomes easily workable mortar applicable horizontally, vertically and overhead

MonniRep F6 is applicable for coatings with a thickness ranging from 3 mm to 6 mm thickness per layer.

Advantage

- ▶ Excellent bond to all concrete supports
- ▶ Requires only on the 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 the same degree as an 80 cm layer of concrete
- ▶ No chloride contents
- ▶ Fully compatible with other Monneli Repair Products

Usage Instructions

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 4.5 liters of water into a clean container and add slowly the content of MonniRep F6 (25 kg). 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 the MonniRep F6 manually with spatula or steel trowel with a thickness of up to 6 mm. The product can be applied in more than one layer. Leave the surface rough if the application of following layers is needed.

Only the last coat can be smoothed with sponge trowel few minutes after the application. If surface dries too fast during the smoothing, it can be dampened by water spraying to facilitate the trowel application. Care should be taken not to overwork the surface. When high mechanical resistant thin plaster is required, MonniRep F6 must then be reinforced with a special fibers tissue. It is recommended to use curing compound in high temperature and drying wind conditions. In cold conditions protect the surface from freezing.

Curing

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

Cleaning

MonniRep F6 should be removed from tools and equipment and mixers with clean water immediately after use. Cured material should be removed mechanically.

Technical Data

Category	Typical Values
Appearance	Grey powder
Density	1.8 – 1.85 kg/L @ 25°C
VOC	2.0 g/L
Workability time	40 minutes @ 25°C
Adhesion to concrete (BS 1881)	> 1.5 N / mm
Compressive Strength at 28 days (ASTM C579)	> 27 N / mm ²
Flexural Strength at 28 days (ASTM C580)	7.6 N / mm ²
Tensile Strength at 28 days (BS6319 Pt.7)	3.06 N / mm ²
Coefficient of thermal expansion (ASTM C 531)	$7.8 \times 10^{-6} / ^\circ\text{C}$
Rapid Chloride Permeability (ASTM C102)	Moderate
Drying Shrinkage at 28days (ASTM C 157-93)	<400 microstains

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

All values are subject to 5-10% tolerance

Yield

17 liters / 25 kg bag

Packaging

MonniRep F6 is packed in bags of 25 Kg.

Shelf Life & 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.

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

Health & Safety

MonniRep F6 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

Legal disclaimer

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