

MONOFLEX CFR

Single component modified acrylic polymer for cement based flexible waterproof coating system for concrete surface

DESCRIPTION

Monoflex CFR is a single component modified acrylic polymer based material to be mixed with cement on site simply brush applied over concrete and masonry surfaces to provide an Technical support Starke provides a technical advisory service supported by a team of specialists in the field.

PRIMARY APPLICATIONS

Provides an effective and economical method of waterproofing to concrete and masonry surfaces, by mixing with cement and application by brush for the following areas.

AREAS OF APPLICATION

As a waterproofing barrier coating below :

- . Bridge decks, runways, industrial floors, etc.
- . Dams, water towers, tanks
- . Tunnels and sewages
- . Pools and fountains
- . Reservoirs and channels
- . On Roofs, terraces and balconies as a sandwich layer

FEATURES AND BENEFITS

- Non - toxic and Provides a tough, impermeable waterproof membrane
- Can be applied by brush, on horizontal and vertical surfaces and Excellent adhesion to concrete and masonry surfaces.
- Protects concrete and mortar from natural elements such as wind, rain, sunlight
 - * Non flammable
 - * . Breathable - allows inside water vapour to escape
 - * User friendly

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PROPERTIES

Water absorption	: 1% maximum
Pot life at 27°C	: 45 minutes.
Mixed Density	: 1.68gm/cc
Application temperature	: Not less than 10°C
Toxicity	: Non-toxic
Bond strength to concrete	: 1 N/mm ²

APPLICATION INSTRUCTIONS

Preparation

All surfaces to be applied with Monoflex FCR must be thoroughly cleaned by a wire brush or other mechanical means, to remove all dust, laitence or debris. The surface must also be free from oil, grease, wax and/or any other form of foreign matter which might affect adhesion. Spalled and deeply disintegrated concrete or mortar must be removed to a sound substrate and repaired suitably before coating.

MIXING

Monoflex CFR acrylic polymer shall be mixed with OPC cement in the ratio of 1:2 respectively, to obtain a uniform and consistent slurry avoiding any lump formation. This can be achieved with a low duty, low speed drilling machine attached with a mixing paddle. Do not mix for more than 2 minutes. More material should not be mixed than can be used within the pot life.

Retempering the mix with water should not be done. Keep on mixing till the entire quantity is applied, so that solids do not settle at the bottom of the container.

Monoflex CFR OPC cement

1Ltr 2kg

5Ltr 10 kg

25Ltr 50 kg

For white colour - mix white cement, for other colours, add cement compatible pigments to white cement.

APPLICATION

For best results, wet the surface before coating. Apply the mix with a short, stiff bristle brush like a paint to an approximate thickness of 1 to 2mm. During the first 12 hours of curing, Monoflex FCR surface must be protected from abrasion, rain or other adverse conditions. No traffic shall be allowed within 48 hours after application.

Normally 2 coats of application of Monoflex CFR are recommended. First coat should be allowed to air dry for 5 - 6 hours. After application of the final coat, initial air drying shall be allowed for 2 to 6 hours. During this period water should not be used for curing. Moist curing should be done for the next 24 hours by spraying water on MONOFLEX CFR coating.

Following moist curing, MONOFLEX CFR should be allowed to dry for three days before subjecting it to submersion in water.

PACKAGING

Monoflex CFR available in 1, 5 & 25 Ltrs packs.

COVERAGE

1.7 kg mixed material is required for covering 1m² at 1mm thickness. However the practical consumption varies depending on the texture and porosity of the surface and the application thickness.

STORAGE

Monoflex CFR liquid has a shelf life of 12 months, when stored in unopened containers under normal warehouse conditions.

PRECAUTIONS

Health & Safety

Monoflex CFR is water based and non-toxic. Gloves should be worn during application. Any splashes on the skin or eyes must be washed off with clean water. In case of prolonged irritation medical advice should be sought.

FIRE

Monoflex CFR is nonflammable.

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