

MONOFLEX CFR

Elastomeric acrylic cement modified waterproof coating for roofs

Description

MONOFLEX CFR is a two component polymer modified cementious, elastomeric waterproof coating for roofs and wet areas.

Applications

- For roofs waterproofing and wet areas.
- For waterproofing of water retaining structures and reservoirs.
- •To provide protection for concrete substrates and masonry against carbon dioxide, chloride ions, water and de-icing salts.

Advantages

- Waterproof, suitable for roofs and water retaining structure and basements.
- Breathable, water vapour preamble.
- Durable, excellent resistance to UV attack.
- Excellent protection against carbon dioxide, chloride ions and water.
- •Non-toxic, suitable for drinking water.
- Cost effective, quick and easy brush or spray application.
- Suitable for internal and external applications.
- Able to withstand foot traffic.
- Able to withstand high positive and negative pressures.

Method of Use

SUBSTRATE PREPARATION

The surfaces to be coated should be clean, sound, and free from any contamination. Remove any traces of curing compound, laitance, organic growth or any other loose materials.

This is best obtained by using high pressure water or light grit blasting.

Honey combing, damaged or deteriorated concrete exists, the substrate should be repaired using suitable low permeability repair mortar from STARKE repair systems before commencing the coating.

Priming

No primer is required, but substrates should be presoaked with clean water prior to application of **MONOFLEX CFR**.

Technical Properties @ 35°C:

Mixed density: 1.80 ± 0.05 g/cm³

Working Time: 45 min

Colour: Grey or white

Mixing ratio: 5.1 kg liquid polymer with 10.9 kg

powder

Minimum application

temperature: 5°C

Bond strength: > 2 MPa

(concrete failure)

ASTM D4541-02

Tensile strength: > 2 MPa @ 28 days

(mortar consistency)

BS 6319, Part 7

Static crack

accommodation: 1 mm

Permeability Pass @ positive water pres- sure (2 mm thickness): > 8 bars Pass @ negative water

DIN 1048 pres- sure > 4 bars

Flexural strength: > 4 MPa

(mortar consistency)

BS 6319, Part 3

Elongation at break: > 15% dry curing after 28 days

(without reinforce-

ment) @ 4 mm thick- ness

ASTM D412 Maximum 0.5 mm

grain size:

Initial setting: 40 - 50 min

Final setting: 2 - 3 hr

Mixing

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used. The 5.1 kg of **MONOFLEX CFR** liquid should be added to a clean container.

The 10.9 kg powder is then added slowly to the liquid while mixing continuously with low speed mixer/ drill (400 - 600 rpm). Mixing time should be continued for 3 minutes until a uniform consistency is obtained.

Application

MONOFLEX CFR can be applied by brush or spray. The mixed material should be brushed well into the surface. Strike off with the brush in one direction. Care must be taken not to spread the material too thin. When the material begins to drag, do not add any water, but dampen the surface again.

Leave the first coat overnight to cure before applying the second coat. The second coat shall be applied by brush in a similar way to the first layer but preferably perpendicular to the previous layer to ensure good bond and coverage.

Areas subjected to foot traffic fiber glass mesh (2*2) needs to be installed between the two coats of **MONOFLEX CFR**

Cleaning

All tools should be cleaned immediately after finishing by clean water. Hardened materials should be cleaned mechanically.

Remarks

MONOFLEX CFR should not be applied to frozen substrate or if ambient temperature is below 35°C or expected to fall below 5°C.

Packaging

MONOFLEX CFR is available as 16 kg packs (9 litre) (5.1 kg polymer and 10.9 kg powder).

Coverage

Approximately 9 m2 for 1 mm thickness.

Actual coverage can vary depending on the substrate conditions.

Storage

MONOFLEX CFR has a shelf life of 12 months from date of manufacture if stored at temperatures between 5°C and 35°C.

If these conditions are exceeded, STARKE Technical Department should be contacted for advise.

Cautions

Health and Safety

As MONOFLEX CFR contains Portland cement and sand, **MONOFLEX CFR** may cause irritation to skin or eyes.

In case of accidental contact with eyes, immediatly flush with plenty of water for at least 10 minutes and seek medical advise.

For further information refer to the Material Safety Data Sheet.

Fire

MONOFLEX CFR is nonflammable.

More from starke construction chemicals A wide range of construction chemical products are manufactured by STARKE which include:

Concrete admixtures.

Surface treatments

Grouts and anchors.

Concrete repair.

Flooring Coating

Sealants.

Waterproofing.

Adhesives.

