

Shieldrep CF

Single-component, Thixotropic, Cement-based Crack Filler
(Formerly Known as Rep CF)



MICSHIELD®

Description

Shieldrep CF is a single-component, cement-based repair mortar and crack filler, supplied as a ready-to-use blend of dry powders that requires the addition of clean water on site. It consists of white cement, fine filler, and additives, and is designed to fill and level surface cracks prior to the application of plasters, paints, wallpaper, etc.

Uses

- Filling of static cracks up to 4 mm in width.
- Suitable for indoor and outdoor applications, in both dry and wet conditions.

Characteristics / Advantages

- Factory-controlled, pre-blended dry mix that requires the addition of water.
- Easy to apply.
- High freeze/thaw resistance.
- Non-shrink characteristics.

Shelf Life and Storage

Shieldrep CF has a shelf life of 12 months when stored in its original unopened packaging in cool and dry conditions, protected from direct sunlight, heat, and moisture. Shelf life may be reduced if the recommended storage conditions are not followed.

Safety Instructions

Shieldrep CF contains hydraulic cement and may cause irritation to the skin or eyes. Refer to the most recent Material Safety Data Sheet for information and advice on the safe handling, storage, and disposal of the product.

Packaging

Shieldrep CF is supplied in 20 kg bags.

Typical Properties

Color / Appearance	White/ grey powder
Fresh Wet Density (@ 23°C)	1.70 ± 0.10 g/ml
Maximum Aggregate Size	60 microns
Working Time (@ 23°C)	~ 40 minutes
Yield / 20 kg bag	15 Liters
Compressive Strength (EN 12190) @ 28 days	≥ 10.0 MPa
Flexural Strength (ASTM C348) @ 28 days	≥ 3.0 MPa
Application Thickness	1-3 mm in a single layer Up to 15 mm in multiple layers

Application Instructions

1. Substrate Temperature

+5 to +40 °C

2. Surface Preparation

The substrate must be free from dust, loose materials, surface contamination, and materials that may reduce bond or prevent adhesion of the repair mortar. Remove damaged concrete by suitable means.

Prior to application, thoroughly saturate the concrete surface to provide a saturated surface dry condition (SSD). Poor quality concrete may require soaking for a significant time. Any surface water should be removed using an oil-free compressed air jet.



3. Mixing

Shieldrep CF requires 5.2 – 6.0 liters of potable water per 20 kg bag for manual hand application. For optimum results, mixing should be performed using a forced action mixing paddle powered by a heavy-duty electric mixing drill.

Add the pre-measured amount of water to a clean mixing bucket.

Add **Shieldrep CF** powder slowly to water whilst mixing and continue mixing for 3 – 5 minutes until a homogenous, lump-free consistency is achieved.

4. Application

The mixed material of **Shieldrep CF** should be uniformly pressed into the crack using a flat putty trowel or filling knife. Multiple coats must be applied wet on wet to ensure the crack is filled completely.

As soon as the mortar has started to set, it can be smoothed level with the surface by suitable means or alternatively sanded down to level once set.

5. Cleaning

All mixing and application equipment should be cleaned immediately with clean water. Hardened material should be mechanically removed.

6. Curing

Curing is not normally necessary, but freshly applied material should be protected from rain and strong drying winds.

Consumption and Coverage

Yield: ~ 15 Liters

Consumption: 3.90 – 4.00 kg/m²/3 mm thickness.

Coverage: 5.00 – 5.20 m²/20 kg bag/3 mm thickness

Limitations

- Do not apply the product if the ambient temperature is less than 5°C.
- Hot weather practices should be adopted during application and curing if the temperature is above 35°C. In hot conditions, store the material in a cool environment prior to mixing.

Technical Support

Refer to technical information, method statement, or contact technical support team for any inquiry.

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