

Product Data Sheet  
Edition 07.2008  
Identification No. RC - 3



## KEMREPAIR FC

Cement-base, Polymer modified fairing coat

### Description

**KEMREPAIR FC** is a cement-base, polymer modified silica fume containing, moisture resistant, and surface applied mortar for concrete horizontal and vertical surfaces. It can be fortified with alkali-resistant glass fibers and properly structured with non-metallic aggregates selected for hardness and strength produce a mortar with excellent compressive, tensile and flexural strengths. It can be used up to 5mm thick.

### Where to use

**KEMREPAIR FC** is designed to surface, repair & level concrete substrates as in:

- Residential & commercial buildings
- Basements & foundations.
- Tunnels
- Brick works and other types of masonry.

### Advantages

- Durable & moisture resistant.
- Can be used for interior & exterior.
- Fire resistant.
- Lower installment cost.
- High mechanical strengths.
- Easy to use.
- Non-flammable.

### Properties

Fresh wet density	2 ± 0.2 Kgm/L.
Coefficient of thermal expansion	Similar to concrete
Compressive strength (28 days)	30 – 35 N/mm <sup>2</sup>
Adhesion	1.5 – 2.5 N/mm <sup>2</sup>
Setting time at 25 °C	30 – 45 minutes
Colours	White, grey and other colours

### How to use

#### Surface preparation:

Concrete must be structurally sound, dry, clean and free from dirt, clay, paint, oil, grease, efflorescence and any foreign materials that will prevent good bonding. Laitance should be completely removed. Any dust or loose materials should be blown clean.

#### Mixing:

- Use clean tools and mixing equipment.
- Add the dry material to the mixing clean potable water (4 - 4.5 L/25 Kg powder).
- Do not mix more materials than can be applied in one hour.
- Power mixing for 2 – 3 minutes.
- The mixture when properly mixed should be free of lumps.

#### Application:

- Dampen the surface just before application but avoid over saturation.
- Re-dampen during application, if the surface starts to dry out.
- Trowel on the mortar in a max. 5mm thickness using an upward stroke.
- The material can be applied by brush.
- Completely cover the surface leaving no holes.
- Stop work only at natural breaks.
- Allow the material to set slightly before finishing.
- The finished surfaces should be misted with water once or twice per day or with a water base curing compound as KEMCURE W.
- If the weather is hot or dry, cover with a plastic sheet.
- Protect from heavy rain within the first 8 hours.

#### Precautions:

- Do not apply when temperature is below 5 °C.
- Do not apply to dirt or clay covered surfaces.
- Do not add any concrete admixtures to the material.
- Do not add any sand, cement or lime.

Product Data Sheet  
Edition 07.2008  
Identification No. RC - 3

**Cleaning:**

Tools and equipment to be cleaned with water immediately after use.

**Theoretical Coverage:**

6 Kgm/m<sup>2</sup> ( 3 mm.thick), depending on the porosity and the texture.

**Packaging:**

25 Kgm.(powder) Sacks.

**Shelf life & Storage:**

One year if stored in its unopened packs at suitable conditions.

**Health and Safety**

- Use gloves when handling dry powder.
- Do not breathe dust.
- Use a practical mask.
- Eye contamination must be washed immediately with clean water.
- Working areas should be well ventilated.

**Additional Information**

PROKEM provides the construction industry with a comprehensive range of construction chemicals and specialty products answering the queries of modern engineers for trouble free durable structure. PROKEM designs tailor made products should there be critical application that requires specific properties rather than our main range. For our customer's satisfaction, PROKEM extends technical services to include after sales support to assist users in a proper handling of our products.