

# PIOMORTAR FC

Epoxy resin-based sealing and fairing coat mortar

## DESCRIPTION

**PIOMORTAR FC** is a hand applied, 2 component, solvent free epoxy mortar, designed as a high strength thin section repair material to cracks, pinholes and irregularities in concrete surfaces. It has smooth, thixotropic consistency allowing it to be applied both horizontally & vertically from feather edge to a maximum thickness of 10 mm, has excellent adhesion to most substrates and reduces consumption of subsequent coatings.

## USAGES

- Repair small areas of chipped or damaged concrete
- Fine repair of concrete columns & beams
- Repair of chemical tanks
- Repair of areas subject to heavy traffic and impact such as warehouses and factories floors

## ADVANTAGES

- Multipurpose
- Solvent free
- Abrasion and chemical resistant
- Self-priming
- Long pot-life
- Non-sag and non-shrinking
- Compatible for over coating with acrylic based materials
- Easy application, two-component
- High mechanical characteristics

## TECHNICAL DATA

### PIOMORTAR FC

Mixed Appearance

Solid Content

Mixed Density @30°C  
(ASTM D1475)

Pot life @30°C  
(ASTM D2471)

Overcoating Time  
(ASTM D2471)

Hard Dry @30°C

Full Cure @30°C

Adhesion to Concrete  
(ASTM D4541)

Compressive Strength  
@day 7

### Typical values

Grey paste

100%

1.60 kg/lit

30 – 60 min

8 hours

16 hours

7 days

> 2.0 N/ N/mm<sup>2</sup>

65 N/ mm<sup>2</sup>

## USAGE INSTRUCTIONS

### 1. Surface preparation

All substrates shall be sound, clean, free from dust, grease & oil, dirt, the concrete wet substrates should be sponged-dried to remove all free surface water.

All steel substrates should be free from dirt, oil, rust, grease, it is recommended to blast-cleaning using Sa 2/1/2 as per EN ISO 12944, Part 4.

Concrete surfaces particularly if new; should be fully cured with a maximum residual relative humidity (RH) of 75%.

### 2. Priming

No primer needed before using **PIOMORTAR FC**.

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**Coverage**

4-5 m<sup>2</sup>/ 8 kg/1mm

All coverage rates given are theoretical and subject to actual site condition. We recommend trial areas are done to establish a practical consumption.

### 3. Mixing

Stir component A only separately, then the entire content of component B could be poured into the base container, both should be mixed for a minute at least using mechanical mixer (a small drill mixer). Insufficient mixing may lead bubbles formation or delay in hardening.

### 4. Application

Apply mixed **PIOMORTAR FC** to the substrate with a spatula or a trowel onto a prepared surface ensuring the void is filled, **PIOMORTAR FC** can be applied from feather edge to a maximum thickness of 10 mm.

### 5. Curing

It is recommended to allow a minimum of 24 hours to cure, and lightly abrade before overcoating using sandpaper.

### 6. Cleaning

Tools contaminated with **PIOMORTAR FC** can be cleaned using a suitable thinner, hardened material can be removed by mechanical means.

## PACKAGING

**PIOMORTAR FC** is supplied in 8 kg set, component A & B.

## HEALTH & SAFETY

Before applying **PIOMORTAR FC**, all safety protections should be worn during application, such as safety goggles and rubber gloves to avoid any harmful accidents.

If **PIOMORTAR FC** is splashed to skin, it must be washed off by water and soap at once, and if to the eyes seek medical attention immediately.

## STORAGE & SHELF LIFE

**PIOMORTAR FC** shall be stored in its sealed container under dry and shaded place in a temperature from 10°C - 35 °C, shelf life of the material is 12-months.

### TECHNICAL SERVICE

The technical service department of Arkaz is available to assist in the correct and best use of our products, these resources and advice are at your disposal entirely without obligation.

Please contact:  
concretedoctor@arkaz.com

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