

# TEKNOLEVEL FC

## Cementitious Fairing Coat

### DESCRIPTION

TEKNOLEVEL FC is a cementitious mortar which incorporates very fine filler component which makes it suitable for application in very thin sections. It is polymer enhanced to achieve a very good quality finish. It is suitable for applications between 6mm down to a feather edge. The product exhibits excellent bond adhesion to the substrate and offers a good degree of resistance to water permeability.

### USES

TEKNOLEVEL FC is used for application to concrete to repair minor blemishes and poorly compacted concrete. It is also used to provide a fare-faced finish after structural repairs have been carried out to a concrete structure.

### ADVANTAGES

- Polymer rich mortar, to provide superior finishing.
- Excellent adhesion to substrate.
- Low water permeability.

Property	Value
Density	1810 Kg/ M <sup>3</sup>
Working Life	2 hrs @ 20°C
Compressive Strength	5 MPa @ 1 Day 8 MPa @ 7 Days 14 MPa @ 28 Days
Flexural Strength	4 MPa @ 28 Days
WSR	0.18
Application Thickness	1mm – 6mm

### PROCEDURE

**Surface Preparation:** The perimeter of the repair should be saw cut to a depth of 1mm and all loose and damaged concrete should be carefully removed back to sound substrate. Any steel reinforcement within the area should be fully exposed around the full circumference of the bar. Exposed steel reinforcement should be cleaned back to bright steel, by means of grinding or grit blasting. Any surface contaminant should be removed by suitable means to ensure a good quality, clean substrate that has a compressive strength in excess of 25 MPa.

**Mixing:** TEKNOLEVEL FC should be mixed with approximately 4.5 ltrs of clean water using a forced action paddle mixer until a uniform consistency is achieved. Once mixed the mortar should be placed immediately.

**Application:** TEKNOLEVEL FC should be applied to minor defects and honeycombing in the concrete using a suitable trowel or palette knife. If large areas are to be repaired or coated, then the mortar should be worked thoroughly into the substrate to ensure that an intimate bond is achieved. The mortar can then be finished using a steel or wooden float to achieve the desired surface finish. The surface should not be over worked, otherwise delamination or surface cracking will occur. TEKNOLEVEL FC should be applied at a maximum thickness of 6mm. If greater thicknesses are required, then the first coat should be allowed to stabilize before applying this subsequent layer. Primer is not required between layers.

**Equipment Cleaning:** Tools and mixing equipment should be cleaned immediately after use with clean water.

**Curing:** Due to its thin section application TEKNOLEVEL FC, should always be cured with PREMCRETE CUREAID AC immediately once the finishing of the surface has been completed. The surface should be protected from direct sunlight and wind and ideally be covered with membrane to protect it from premature drying.

## PACKAGING & COVERAGE

**Pack Size:** TEKNOLEVEL FC is supplied as 25Kg pack.

**Yield:** 1 x 25Kg pack will yield approximately 15ltrs.

**Coverage:** A 25Kg pack will cover 5M<sup>2</sup> at 3mm thickness.

## STORAGE & SHELF LIFE

TEKNOLEVEL FC should be stored in clean dry conditions at temperatures between 6°C and 30°C. When stored in unopened packs the product will have a shelf life of 12 months.

## HEALTH & SAFETY

See separate material safety datasheet.

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