

Kemrepair FC

Cement-Base, Polymer Modified Fairing Coat

Description	<p>Kemrepair FC is a cement-base, single-component, polymer modified silica fume containing, moisture resistant, and surface applied mortar for horizontal and vertical concrete surfaces. It can be fortified with alkali-resistant glass fibers and properly structured with non-metallic aggregates selected for hardness and strength to produce a mortar with excellent compressive, tensile and flexural strengths. It can be used up to 5mm thick. Kemrepair FC fairing Coat is also used as a leveling mortar prior to the application of protective coatings and paints.</p>
Where to use	<p>Kemrepair FC is designed to surface, repair & level concrete substrates as in:</p> <ul style="list-style-type: none"> • Prepacked fairing coat for leveling new and old surfaces prior to coating. • Residential & commercial buildings. • Filling blowholes and surface blemishes. • Basements & foundations. • Tunnels. • Brick works and other types of masonry.
Advantages	<p>Kemrepair FC provides the following advantages:</p> <ul style="list-style-type: none"> • Durable & moisture resistant. • Good carbonation resistance. • Can be used for interior & exterior. • Good adhesion to prepared concrete. • Fire resistant. • Lower installment cost. • Allows water vapor to escape, does not trap water vapor and does not blister. • High mechanical strengths. • Suitable for new and old concrete. • Easy to use. • Non-flammable.
Properties	
Mechanical Properties:	After 28 days cured at 20o C and R.H. of 70 ±5%
Fresh wet density	2 ±0.2 Kg/L.
Coefficient of thermal expansion	Similar to concrete
Compressive strength (28 days)	30 – 35 N/mm ²
Adhesion	1.5 – 2.5 N/mm ²
Setting time @ 25 °C	45 minutes
Color	Grey

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.
Expansion Joints	Shall be installed in accordance with local building codes & never bridge an expansion, contraction, or construction joint.
Mixing	<ul style="list-style-type: none"> • 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. <p>The mixture when properly mixed should be free of lumps.</p>
Application	<ul style="list-style-type: none"> • 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. <p>Curing:</p> <ul style="list-style-type: none"> • The finished surfaces should be misted with water once or twice per day or with a water base curing compound as Kemcure W.
Cleaning	Kemrepair FC should be removed from tools and equipment immediately after use with clean water.
Theoretical coverage	2 Kg/m ² / 1 mm thick.
Packaging	25 kg Sacks.
Shelf life & Storage	Kemrepair FC has a shelf life of 12 months if maintained in dry storage conditions (unopened sacks)
Precaution	<ul style="list-style-type: none"> • 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. • If the weather is hot or dry, cover with a plastic sheet. • Protect from heavy rain within the first 8 hours.
Health and Safety	<ul style="list-style-type: none"> • Kemrepair FC is non-toxic if come in contact with skin. • Use gloves to avoid contact with skins. • If skin comes in contact, wash immediately with soap and water. • Do not use solvents. • Eye contamination must be immediately washed with water, then seek medical treatment. • Do not breath dust, Use a practical mask.
Additional Information	<p>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.</p> <p>PROKEM designs tailor made products should there be critical application that requires specific properties rather than our main range for our customer's satisfaction.</p> <p>PROKEM reserves the right to change the properties of its products.</p> <p>All orders are accepted subject to our current term of sale & delivery.</p> <p>Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request.</p> <p>PROKEM extends technical services to include after sales support to assist users in a proper handling of our products.</p> <p>Environmental Considerations Kemrepair FC is environmentally safe.</p>