SMARTCARE

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Smartcare Repair FC-1K

Blow hole filler, fairing coat & leveling mortar

Description

SmartCare Repair FC-1K is a single-component, cementitious, polymer-modified fairing mortar supplied ready for mixing with water. It is specifically designed for thin-layer applications (0–3 mm) to achieve a smooth, fair-faced cementitious finish on concrete and precast surfaces such as beams, columns, and bridges. Ideal for vertical and overhead areas, it prepares surfaces for decorative and protective coatings.

When mixed with water, SmartCare Repair FC-1K forms a smooth, creamy paste that is easy to apply. The product is fully compatible with the SmartCare concrete repair range, ensuring seamless integration for comprehensive repair solutions.

Uses

- SmartCare Repair FC-1K can be used for Re profiling of damaged corners and edges to be used in conjunction with other SmartCare concrete repair system.
- It can be filled with the scrape coat application at Surface imperfections up to 3 mm in depth.
- It can be used for filling honey combed surfaces and for re profiling of concrete including precast surface imperfection caused by faulty workmanship.

Characteristics/ Advantages

- Easy Mixing
- No primer or curing required
- Excellent Bonding strength
- Formulated for extreme climatic conditions.
- Thin layer applications possible.
- Shrinkage compensated
- Excellent resistance to chloride and carbon dioxide.
- Pre-packed, easy to use, simple addition of water at the site
- Can be over coated with Decorative and Protective Coating
- Concrete Colour make it Ideal for astatic precast elements

Packing

20 kg

Properties

Conforming to the requirements of EN 1504-3 class R2	
EN 1504-2 coating ©, principles MC and IR	
Compressive Strength (BS 1881 Part 116)	>25 N/mm^2- at 28 days
Appearance	Fine grey powder
Bond Strength (ASTM D4541	>1.0 N/mm^2- at 28 days
Fresh Wet density	1.85 ±0.05 Kg/Ltr
Working time	30 minutes @30°C
Special Ingredients	Polymer & binders

Coverage

SmartCare Repair FC-1K 20kg bag will cover approximately 4.45 m^2 at 3mm thickness

Yield

13.5 Ltrs

Application Method

Surface Preparation

• All surfaces must be clean and free from any loosely adhering particles or contaminants such as dirt, oil, dust,
grease, etc. to allow for maximum adhesion.

• Cement laitance should be removed by wire brushing or scrabbling or any other mechanical means.

• Dry and absorbent substrates should be thoroughly pre-wetted and the surface allowed to dry to a saturated
(surface dry condition) before application commences.

• Anti-dusting properties may be imparted upon the mix by the addition of Smartcare Repair Bonding Agent-SBR to the gauging water. This will also enhance other performance properties; but should not be viewed as mandatory
for every application

Priming

The repair areas must be clean and soaked with clean potable water to saturated surface by condition for a minimum of 20 min prior to commencing application and then apply SmartCare Repair FC-1K. No primer is required.

Mixing

For small volumes, part mixing can be done by adding 5Kg of the SmartCare Repair FC-1K to 1.250 liters of clean fresh water and mixed thoroughly until fully lump free consistency is achieved. The consistency can be adjusted by using less water if desired.

For larger volumes, place 5.0 to 5.5 liters of cool, potable water into a clean bucket and, with slow speed drill machine (500 RPM) in operation attached to an electric drill., slowly add one full 20KG bag of SmartCare Repair FC-1K and mix continuously for 3 to 5 minutes until fully homogeneous.

Water addition may vary slightly according to both the ambient temperature and the desired consistency of the mix, but it should not exceed 5.5 liters.

For additional anti-dusting, or enhanced performance properties, add 1 liter of SmartCare Repair Bonding Agent-SBR to the gauging water and mix until the desired consistency is achieved.

Note: In all cases the powder must be added to the water.

Application

Apply the mixed SmartCare Repair FC-1K to the prepared substrate by steel trowel from a feather-edge up to a 3 mm thickness. It should be applied with the minimum of working and be allowed to partly set before finally troweling to a smooth finish. If a very smooth finish is required, a small amount of water may be sprinkled on to the surface of the SmartCare Repair FC-1K with a paintbrush prior to final troweling. Any friable material may be removed by light sanding after the SmartCare Repair FC-1K has cured. Do not proceed with the application when rainfall is imminent unless in a sheltered or protected situation.

Precautions & Limitations

• Temperature range: 5°C to 40°C. Outside this range, it is recommended to use hot mixing water (below 5°C) or cold water (above 40°C) depending on the circumstances, as well as increased care in protecting the surface
(covering with insulating materials).

• Solid and resistance supports to be used. Support is to be saturated with water a few hours prior to installation. All residual water to be removed prior installation.

• Do not mix with other hydraulic binders. Under no circumstances should any additives be used.

Cleaning

SmartCare Repair FC-1K should be removed from tools, equipment and mixers with clean water immediately after use. Cured material can only be removed mechanically

Shelf life & Storage Condition

All products have a shelf life of 12 months if kept in a dry store in the original, unopened bags or packs at 25°C

Health & Safety Features

Avoid contact with eyes and prolonged contact with skin. In case of contact with eyes immediately flush for at least 15 minutes with fresh clean water. Call a physician.
In case of contact with skin wash skin thoroughly.

Note: The information supplied in our literature or given by our employees is based on extensive experience and, together with that supplied by our agents or distributors, is given in good faith to help you. Our company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however, as we have no control over site conditions or the execution of work, we accept no liability for any loss or damage which may arise as a result thereof.

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