K2 CEMSCREED FR

POLYMER MODIFIED FIBRE REINFORCED CEMENTITIOUS REPAIR MORTAR

Description:

K2 CEMSCREED FR is a ready to use repair mortar with added composed of cement, properly selected & graded fillers, polymer sand additives with specially designed fibers. It is used for repairs of structural areas in residential, commercial & industrial buildings. It produces a dense, high strength repair mortar, with excellent bond characteristics to steel reinforcement and concrete.

Area of Application:

All kinds of repair for structural areas like Industrial, Commercial & residential buildings, Repairs to reinforce or pre-stressed beam or columns, Repairs of jetties and any other structure in a Marine environment.

Benefits:

- Easy to mix with water and apply manually by trowel.
- Excellent bond strength.
- Quick repair with long lasting life.
- Reduces the risk of cracking due to shrinkage compensation.
- High tensile strength.
- Saves primer cost, easy to apply manually becomes economical.
- Extremely low permeability, gives excellent resistance to attack by aggressive environmental elements to make structure durable.

Technical Properties:

Properties		Results
Appearance		Free flowing powder
Color		Grey
Water: Powder ratio by weight		0.18
Fresh Wet density. Kg/m³		2200
Application thickness, mm		10 mm - 50 mm
Compressive Strength,	1 day	20 N/mm²
	3 day	25 N/mm²
	7 day	35 N/mm²
	28 day	40 N/mm²
Flexural Strength, 7 days		> 7 N/mm²
Tensile Strength,	7 days	2.75 N/mm²
	28 days	3.31 N/mm²
Pull of Adhesion Strength, 28 days		0.54 N/mm²

Application Instruction:

SURFACE PREPARATION

- It is essential that the substrate to be repaired is sound, clean and free of all contamination.
- The damaged areas of concrete should be removed and clearly identified. The perimeter of the area should be saw cut to a depth of 10 mm and the edges should be cut clearly too easy find the sides squares. Feather edging is not permitted and a minimum thickness of 10 mm must be maintained over the whole repair area.
- If reinforcement is exposed in the repair area, it should be cleaned to remove all the rust particles from the metal wire brush or abrasive blasting.

MIXING PROCESS

- K2 CEMSCREED FR must be mixed mechanically. For this, heavy-duty slow speed drill with spiral mixing paddle or forced action mixer can be used.
- Add 4.5 Liters of water into the mixer. Start the mixer and add the K2 CEMSCREED FR powder rapidly and continuously. Mix for 3 minutes until homogeneous and lump free mortar achieved.
- If necessary, add water to get the desired consistency. Mix for a further 1 to 2 minutes. Do not add excess water in any circumstances. Little extra water may be required in hot climatic conditions.
- For better results maintain the mixed temperature of products at 35°C.

APPLICATION

- After mixing, K2 CEMSCREED FR can be applied by trowel.
- When applying by hand K2 CEMSCREED FR must be forced tightly into the substrate to ensure complete contact with the pre-wetted substrate. In situations where reinforcement steel is countered, the mixed material should be placed behind the bars tightly and then subsequent thickness should be built.
- Leveling and initial finishing should be carried using a wooden or plastic float. Final finishing should be carried out by using a steel float.

CURING

- Good curing is essential. Particular care is required in hot or windy conditions. Curing can either be done with a single coat of K2 CURE CE or by covering the repaired area with a wet hessian cloth fixed over repaired section.

Coverage:

1 – 1.2 Sq Mtr per 25 kg bag at 10mm thickness.

Packing:

K2 CEMSCREED FR is available in 25 kg Pack.

Shelf Life and Storage:

K2 CEMSCREED FR has a Shelf life of 12 Months from the date of manufacturing.

FIRE:

K2 CEMSCREED FR is non-flammable.

Technical Support:

The company provides a technical service supported by the team of specialist applicators in the industry.

Important Note:

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