

# 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.
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- 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/m <sup>3</sup>	2200
Application thickness, mm	10 mm - 50 mm
Compressive Strength, 1 day	20 N/mm <sup>2</sup>
3 day	25 N/mm <sup>2</sup>
7 day	35 N/mm <sup>2</sup>
28 day	40 N/mm <sup>2</sup>
Flexural Strength, 7 days	> 7 N/mm <sup>2</sup>
Tensile Strength, 7 days	>2.5 N/mm <sup>2</sup>

## 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:

KONKEM Industries Private Ltd products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst KONKEM Industries Ltd endeavors to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it or its applicators.

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