

KATRET PCC - T

Structural Repairing Mortar

Product Description :

KATRET PCC-T is a mineral-based, thixotropic, non-shrink, structural repairing mortar for fibre-enhanced, cement-based, vertical applications. It is prepared with reinforcement of granulometric sand, cement and high quality chemical additives applied manually. **KATRET PCC-T** features high adhesion quality and high initial and final compression strength.

Areas of application :

- Interior and exterior
- Vertically
- In the repair of reinforced concrete construction elements
- For the protection of concretes against sulphate and chlorine effects
- In the repair and maintenance of sea constructions
- In the repair and protection of underground works of art
- In the repair of surface decompositions as well as surface leveling of concrete elements
- For obtaining an impermeable and strong layer in exposed concretes
- In the installation of prefabricated concrete constructional elements
- Used in the floorings with light and medium traffic load and the floorings, on which specialty facing may be applied, and for surface repairing
- Used for filling tie-rod holes and cores

Features :

- Strongly adheres to the concrete and the reinforcement
- Thixotropic
- Resistant to freeze-thaw circle
- Resistant to chlorine and sulphate attacks
- Resistant to water, constant wetness, frost and adverse weather conditions
- Non-shrink
- Fireproof

Technical data :

Dmax (mm)	4
Colour	Grey
Applicable Thickness (mm)	Min 10 mm Max 40 mm
Dry Unit Volume Weight (kg / lt)	1,2 ± 0,2
Wet Unit Volume Weight (kg / lt)	2,1 ± 0,2
Pot Life (min.) (at 20°C)	30
Curing Time (hour) (at 20°C)	24
Final Curing Time (day) (at 20°C)	28
Compressive Strength (28 days) (N/mm ²)	≥ 60 N/mm ²
Flexural Strength (28 days) (N/mm ²)	≥ 8 N/mm ²
Adhesion Strength (28 days) (N/mm ²)	≥ 2 N/mm ²
Water Mixing Ratio (for 25 kg dry mortar)	3,5 - 4 lt
Environment and floor temperature for application	Between +5°C and +35°C

Technical data are approximately provided according to a temperature of + 20°C and a relative humidity of 50%.

Preparation of the substrate :

- The application surface should be dry, clean and free from dirt and other adherence reducing materials as well as crack-free, stable and strong load bearing.
- When necessary, application surface should be cleaned with sanding, pressure water or pressure air spraying methods. If there is water discharge in the surface, it should be drained or blocked with a suitable plug. The edges of the surface that is formed by breaking should be cut vertically, the dust on the reinforcements should be cleaned and new reinforcement should be added if necessary.
- Before repairing, the surface should be wetted sufficiently, however water accumulation on the surface should be avoided.

Application :

- Water (2/3 of the amount stated on the chart above) at normal environment temperature is poured into a clean container. Then, some dry mortar is added in the container which is full of water and mixed with a suitable mixing machine or device without stopping. It is mixed until a smooth and homogenous mixture is obtained.
- Some amount of water, which should not exceed the amount stated on the technical data chart, can be added in the mortar prepared in order to obtain the desired consistency.
- After 2 minutes' aging period, the mortar is mixed gently again. The mortar, which is now ready to apply and highly fluid, should be applied within maximum 30 minutes.
- In order to prevent air bubble formation in the mortar, or if an application is to be carried out without mould, the application should start from only one corner or edge, and the air inside should be released. The poured mortar should be mixed and checked with a tool when necessary and air bubbles should be removed.
- The mortar is applied to the surface with a trowel in 10 mm and 40 mm thickness for each layer.
- For thicker applications, after the first layer is dried, the second layer is applied on the surface with the same method.
- When a smooth surface finish is desired, the mortar should be rested until it draws the water and then, some water is sprayed on the drawn mortar with a plasterer's brush and the surface is finished with a steel or wooden trowel.
- The wide exposed surfaces and hot, dry or windy environments should be protected from rapid evaporation with wet sack, water or special curing materials for 24 – 48 hours.
- It should not be in contact with liquids of which pH value is below 5,5.

After application :

The exposed and newly applied surfaces should be protected against fast drying for minimum 48 hours. To avoid it, keeping the surface humid by using wide folios and humid jute sacks would be enough.

Coverage :

Approx. 20 kg/m² for 10 mm thickness

The coverage amounts are theoretical and it is recommended to do coverage-controlled sample application before treatment.

Packaging :

In 25 kg craft bags, 64 bags in 1 palette (1600 kg/palette)

Storage :

- Dry mortar bags should be protected from frost and adverse weather conditions.
- They should be kept dry and cool on wooden pallets at between +10°C and +25°C in moisture free conditions.
- The torn and opened bags should be closed immediately and consumed first.
- Maximum 8 bags are stacked on each other.
- Shelf life is maximum 12 months conditional to complying with the above mentioned storage conditions

Health and Safety Information :

For health and safety instruction, first aid measures and spillage and disposal instructions, see separate Safety Data Sheet.