

## EKOKAT REPAIR STR

High Performance Repair Mortar – Structural



### DESCRIPTION

The product is a cement-based, fiber-reinforced, high-strength structural repair mortar containing mineral aggregates of a special particle size and chemical additives enhancing product performance.

It conforms to TS EN 1504 – 3 / April 2008 standard.

### TECHNICAL SPECIFICATIONS

<b>Appearance</b>	Grey powder
<b>Particle Size</b>	< 0.7 mm
<b>Mixing Ratio</b>	5.5 – 6 liters of water / 25 kg powder
<b>Amount of Consumption</b>	for a thickness of 1 mm 1.8 kg/m <sup>2</sup>
<b>Application Temperature</b>	+5 °C to +35 °C
<b>Time for Use</b>	40-60 minutes
<b>Crustation Time</b>	30 minutes
<b>Time Until Complete Freezing</b>	21 days
<b>Toxicity</b>	Non-toxic
<b>Splice Strength</b>	≥ 1.5 N/mm <sup>2</sup> (EN 1542)
<b>Compression Strength</b>	≥ 25.0 N/mm <sup>2</sup> ( 28 gün ) (EN 12808-3)
<b>Bending Strength</b>	≥ 6.0 N/mm <sup>2</sup> ( 28 gün) (EN 12808-3)
<b>Capillary Water Absorption</b>	≤ 0.5 kg/m <sup>2</sup> h <sup>0.5</sup> (EN 13057)
<b>Slippage</b>	> 0.5 mm
<b>Fire Reaction</b>	A1 (EN 13501-1)

\* The above values are valid for + 23°C and 50% relative humidity. The time is shortened at high temperatures and extended at low temperatures.

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### AREAS OF USE

It is used at reinforced concrete buildings, gross concrete, prefabricated concrete, and gas concrete applications, for repair and plastering of surfaces, for repair of damaged surfaces before application of coats such as ceramic and tiles, and for plastering and repair of walls, edges, corners, and ceilings.

### BENEFITS

It is easy to prepare and apply. It gives a smooth and sound surface. It provides high adherence on concrete and plaster-applied surfaces. It gives proper working time. It does not lead to drift at vertical applications. It has high adhesion properties. It is resistant to water and frost. It is not impacted from thermal differences.

### INSTRUCTIONS FOR USE

The surface should be clean, and all the residues (e.g. grease, dirt, corrosion) that will prevent adhesion on the surface should be cleaned. 25 kg of EKOKAT REPAIR STR structural repair mortar is slowly poured into 5.5-6 liters (22- 24%) of clean water and is then mixed with a low speed (400-600 rpm) mixer until a homogenous mixture is obtained. The mortar is allowed to rest for 3-5 minutes and mixed again for 1 to 2 minutes once before application. The mortar should be used in 3 hours minutes. The mortar should not be used if its usage time has expired and it has been scabbed. The mortar should be applied at the specified application temperature, and protected from direct sun, wind and frost. The mortar is applied with a trowel with a thickness of 1-5 mm. After the mortar loses its water content, water is sprinkled on it and the desired surface is obtained with a steel and wooden trowel. It must be protected from evaporation with special curing materials or wet sacks for 24 to 48 hours after application.

### REFERENCE STANDARDS

TS EN 1504-3 / R3

### PACKAGING

25 kg craft bags (PE reinforced)

64 shrink bags on one palette (110x110 cm).

### APPLICATION TOOLS

Trowel, hand mixer

### STORAGE CONDITIONS AND SHELF LIFE

No more than two palettes should be placed on top of each other in their unopened original packaging, in a cool and dry environment. Shelf life is 12 months from date of production under suitable storage conditions.

### SAFETY MEASURES

Work clothes, protective gloves, goggles, and masks suitable for workers health and safety should be used during the application. Due to irritant effects of uncured material, it should be washed with plenty of water and soap immediately in case of contact with skin and eyes. If swallowed, seek medical advice immediately. No food and drink should be brought into application areas. Store it out of reach of children. Please refer to the safety data sheet for further information.

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### RESPONSIBILITY

Our Company may not be held liable for any application errors that might be suffered if the product is not used for its intended purposes, or if it is failed to conform to the conditions and proposals specified above regarding technical application. This technical data sheet contains information that is current as of the date of issuance hereof. The manufacturer hereby reserves its right to change this data sheet at any time.

- ||||| EK 4003.010.25       Grey
- ||||| EK 4003.020.25       White

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