



TIKKURILA

## FINNSECO KL30

POLYMER-MODIFIED FIBER-REINFORCED CEMENT MORTAR

**DESCRIPTION** Polymer-modified cement mortar containing fiber and additives that prevent shrinkage and improve thixotropy and adhesion.

**RECOMMENDED USES** Residential, commercial, industrial and storage buildings and others.

**PRODUCT FEATURES** For the repair of larger areas of damaged concrete.



## FINNSECO KL30

TECHNICAL DATA	
<b>Colour Shades</b>	Grey.
<b>Coverage</b>	A 25 kg sack will give approx. 12 liters of mix. Grade 0–3 mm.
<b>Can sizes</b>	25 kg
<b>Mixing ratio</b>	Water requirement: 3.5-4.5l water/ 25kg dry product.
<b>Application method</b>	Tamp with a trowel or spray with a plaster pump (min. nozzle size: 14 mm).
<b>Pot-life (+20°C)</b>	approx. 1h
<b>Drying time</b>	Curing (wetting) must be carried out for 2 to 4 days depending on the coat thickness and working conditions. Wait at least 48 hours after curing before applying the finishing coat. See the instructions for use for the finishing material.
<b>Density (kg/l)</b>	Ready mix approx. 2.1 kg/l.
<b>Adhesive strength (EN 1542)</b>	1.2 N/mm <sup>2</sup>
<b>Compressive strength</b>	30 N/mm <sup>2</sup>
<b>Flexural strength</b>	4.0 N/mm <sup>2</sup>
<b>Shrinkage</b>	0.8 (28 days).
<b>Storage</b>	In dry place (away from floor), protect from humidity.

The above information is not intended to be exhaustive or complete. The information is based on laboratory tests and practical experience, and it is given to the best of our knowledge. The quality of the product is ensured by our operational system, based on the requirements of ISO 9001 and ISO 14001. As manufacturer we cannot control the conditions under which the product is being used or the many factors that have an effect on the use and application of the product. We disclaim liability for any damages caused by using the product against our instructions or for inappropriate purposes. We reserve the right to change the given information unilaterally without notice.



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## APPLICATION INSTRUCTIONS

### Application conditions

The ambient temperature of air, mortar and substrate must be at least +5 °C. Do not apply the mortar in hot weather or when the site is exposed to direct sunlight.

### Mixing components

Amount of water to be used: 3.5–4.5 l water to 25 kg dry product.

### Surface preparation

Remove any loose and damaged concrete. Pick-dress the edges of the area to be repaired to make them gently sloping. Remove concrete from around any exposed reinforcement steel (minimum 15 mm or 1.5 times the diameter of the reinforcement), clean it of rust to at least grade St2 and apply a protective coat of Finnseco-KOR anti-corrosion paint.

### MIXING THE MORTAR

Add Finnseco-KL 30 powder to clean water (3.5–4.5 l of water to 25 kg of powder) and mix to an even consistency, e.g. with a whisk attached to a power drill or in a mixer. Let the mix stand for approx. 5 minutes and mix again before starting work.

### Application

**REPAIRS** Moisten the area to be repaired carefully 1–2 hours before starting. You can start the repairs when the moist area is no longer glossy. Pack mortar into the hole to be repaired with a trowel. This eliminates any air pockets that could weaken the bond. The mortar can also be applied by spraying with a paste-spraying gun. Extensive areas several centimeters deep should be repaired in stages. In the first stage, pack mortar into the hole to a thickness of 20–30 mm. Let the patch dry for at least one day before continuing to fill it. If the damaged area is less than 15 mm deep and 100 × 100 mm large, fill it with Finnseco-KL 6 fine repair mortar. **NOTE!** When treating a surface containing asbestos, follow the Government Decision on Asbestos Work (1380/1994) and the related Decrees 318/2006 and 863/2010. Only mix the amount of mortar you can use in approx. 20 minutes. The repaired surface should be finished gently with a wood float.

### Aftercare

Cure the repaired location by moisturizing it in the mornings and evenings with sprayed water or by covering with plastic for 2–4 days, according to the circumstances. If the repaired area is large or the repair mortar layers are thick, continue curing longer.

### Cleaning of tools

Clean tools immediately after use with water.

### Environmental protection and waste disposal

Deliver empty packaging and hardened mortar to a recycling point or waste tip according to local regulations. Destroy powdery, unused render according to the local regulations for hazardous waste.

### Health and Safety

**Contains:** Cement, portland, chemicals. **Danger.** Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. Avoid breathing mist/vapors/spray. Wear protective gloves and eye or face protection. In case of inadequate ventilation wear respiratory protection. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

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## FINNSECO KL30



GHS05



GHS07


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EN 1504-3:2005

	
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TIK-1630-5003	
EN 1504-3:2005	
Product for protection and repair of concrete structures – Non-structural repair.	
Restricted shrinkage /expansion	≥ 0,8 MPa
Carbonation resistance	Pass <sup>1)</sup>
Chloride ion content	≤ 0,05 %
Reaction to fire	F (NPD)
Compressive strength	Class R2
Adhesion strength by pull off test	≥ 0,8 MPa
Release of dangerous substances	NPD

1) When the mortar is coated with a coating for concrete protection complying with EN 1504-2, method 1.3.

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