



TIKKURILA

FINNSECO KL50 KARKEAKORJAUSLAASTI

DESCRIPTION

Polymer-modified fiber-reinforced cement mortar containing additives that prevent shrinkage and improve thixotropy and adhesion. SILKO-approved (3.231).

RECOMMENDED USES

Mineral structures both indoors and outdoors requiring structural strength and excellent frost resistance such as bridge and port structures and parking buildings.

PRODUCT FEATURES

Straightening, filling and patching concrete structures, both on horizontal and vertical surfaces. Increasing structural thickness.



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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TECHNICAL DATA

Colour Shades	Grey.
Coverage	Ready mix: A 25 kg sack will give approx. 12–13 liters of mix. Grade: 0–3 mm. Layer thickness: 5-20 mm, patching holes max. 50 mm.
Can sizes	25 kg
Mixing ratio	Water requirement: 3.5l water/ 25kg dry product.
Application method	Tamping with a trowel or spraying with a plaster pump (min. nozzle size: 14 mm).
Pot-life (+23°C)	around 1 hour.
Density (kg/l)	Ready mix approx. 2.0 kg/l.
Adhesive strength (EN 1542)	>1.5 N/mm ²
Weather resistance	Package durability: Adhesive strength >1.5N/mm ² (EN 13687).
Compressive strength	around 50 N/mm ²
Storage	In dry place (away from floor), protect from humidity.

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APPLICATION INSTRUCTIONS

Application conditions

The temperature of air, repair mortar and substrate must be at least +5 °C. Avoid working when it is hot or in direct sunlight.

Mixing components

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

Surface preparation

Remove any loose and damaged concrete. The edges of the area to be repaired are pick dressed to make them gently sloping. Remove concrete from around the exposed reinforcement bars (minimum 15 mm or 1.5 times the diameter of the reinforcement), clean the reinforcement of rust to grade St2 and coat the reinforcement with Finnseco Tartuntalaasti.

PREPARING THE MORTAR:

Add the Finnseco-KL 50 powder to clean water 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

Repair:

The area to be repaired is moistened carefully 1–2 hours before starting. You can start the repairs when the moist area is no longer glossy. Finnseco Tartuntalaasti is recommended to be used on smooth or unevenly absorbent surfaces. 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. Several layers are used to repair extensive areas that are more than 50 mm deep. Let the patch dry for at least one day before continuing to fill it.

Aftercare

Treat the repaired location by moisturizing it in the mornings and evenings with sprayed water and/or by covering with plastic for 1–3 days, according to the circumstances and layer thickness.

Cleaning of tools

Clean tools immediately after use with water.

Environmental 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 LABELLING according to Regulation (EC) No. 1272/2008

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.




GHS05

GHS07

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EN 1504-3:2006

	
0416	
Tikkurila Oyj Kuninkaalantie 1 FI-01300 Vantaa	
16	
TIK-1630-5018	
EN 1504-3:2006	
Product for protection and repair of concrete structures – Structural repair.	
Restricted shrinkage/expansion	$\geq 1,5 \text{ N/mm}^2$
Capillary absorption	$\leq 0,5 \text{ kg/(m}^2 \cdot \text{h}^{0,5})$
Carbonation resistance	approved ¹⁾
Coefficient of elasticity	$\geq 15 \text{ kN/mm}^2$
Diffusion of chloride ions	$\leq 0,05 \%$
Chloride ion content	$\leq 0,05 \%$
Skid resistance	NPD
Coefficient of thermal expansion	NPD
Adhesion after thermal compatibility	NPD
Reaction to fire	A 2
Compressive strength	Class R3
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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