



TIKKURILA

# FINNSECO PIKAVALULAASTI

**DESCRIPTION**

Mortar containing a powerful water-reducing agent and cement used as a binder; maximum grain size: 3.0 mm. SILKO-approved (3.231).

**RECOMMENDED USES**

Mineral structures both indoors and outdoors requiring structural strength and excellent frost resistance.

**PRODUCT FEATURES**

Repair of concrete structures when fast strength development and drying, effective salt and frost resistance, and slow carbonation are required. Recommended layer thickness 10-50 mm. Strain classes XF 4 and XC 4.



# FINNSECO PIKAVALULAASTI

## TECHNICAL DATA

<b>Colour Shades</b>	Grey.
<b>Coverage</b>	Ready mix: 12–13 l of ready mix / 25 kg dry product. around 2 kg/m <sup>2</sup> /mm.
<b>Can sizes</b>	25 kg, 1000 kg
<b>Mixing ratio</b>	Water requirement: 2.5-3l water/ 25kg dry product.
<b>Pot-life (+20°C)</b>	approx. 1 hour.
<b>Drying time (23°C and 50% relative air humidity)</b>	Mortar's RH < 90% around 7 days In conditions 23°C, RH 50%, with water amount 2.5 l/25 kg
<b>Density (kg/l)</b>	Ready mix approx. 2.1 kg/l.
<b>Adhesive strength (EN 1542)</b>	>2.0 N/mm <sup>2</sup>
<b>Compressive strength</b>	1 day approx. 20 N/mm <sup>2</sup> 7 days approx. 40 - 45 N/mm <sup>2</sup> 28 days approx. 45 - 50 N/mm <sup>2</sup>
<b>Special feature</b>	Carbonation: 0 mm (EN 13295)
<b>Storage</b>	In dry place (away from floor), protect from humidity.

# FINNSECO PIKAVALULAASTI

## APPLICATION INSTRUCTIONS

### Application conditions

The temperature of air, 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: 2.5-3 l water / 25 kg dry product.

### Surface preparation

Old concrete surfaces are cleaned mechanically and pressure cleaned. Moisten the substrate before starting. When starting casting, the surface must be rough, matte damp and absorbent. The tensile strength of the concrete substrate must be at least 1.5 N/mm<sup>2</sup>.

### MIXING THE PLASTER

Add the dry material to the water and mix with a whisk or a power mixer for 2 to 3 minutes until the mass is even. Let the mix stand for approx. five minutes after mixing, then re-mix briefly. Find the right consistency for the mortar when re-mixing the first batch by adding the final amount of water, if necessary. For this reason, you should not measure the maximum amount of water (2.5 l/25 kg) into the mixing container at the start. The pot life of the mix is approx. one hour.

### Application

Casting: Adhesion to the concrete substrate is ensured by brushing the Finnseco Grout on the substrate and sealing the casting carefully. The casting is carried out immediately on top of the fresh grout layer. The thickness of the cast layer with one fill is approx. 10–50 mm. When making thicker castings in several layers, the lowest layer surface is left coarse to ensure good grip.

Reinforcements must be used when casting thick, uniform layers.

### NOTE:

Regular working methods, the designer's instructions and regulations must be followed when working with molds, and casting.

### Aftercare

The curing will be started immediately after spreading the plaster by moistening the surface with clean water and/or covering the surface with plastic for at least 7 days. Curing is finished by degrees. In the case of extensive surface casting, special attention must be paid to curing, preparation of substrate and the actual employment. Curing can also be carried out using Temafloor 220W epoxy primer according to separate instructions. In that case, Finnseco Pikavalulaasti can be coated with compact coating materials in approximately two days after casting.

### 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.

## FINNSECO PIKAVALULAASTI

### 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. **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

# FINNSECO PIKAVALULAASTI

EN 1504-3:2006

	
0416	
Tikkurila Oyj Kuninkaalantie 1 FI-01300 Vantaa	
16	
TIK-1630-5014	
EN 1504-3:2006	
Product for protection and repair of concrete structures – Structural repair.	
Restricted shrinkage/expansion	$\geq 2,0 \text{ N/mm}^2$
Capillary absorption	$\leq 0,5 \text{ kg/(m}^2 \cdot \text{h}_{0,5})$
Carbonation resistance	approved <sup>1)</sup>
Coefficient of elasticity	$\geq 20 \text{ kN/mm}^2$
Chloride ion content	$\leq 0,05 \%$
Coefficient of thermal expansion	NPD
Adhesion after thermal compatibility	$\geq 2,0 \text{ N/mm}^2$
Reaction to fire	A 1
Compressive strength	Class R4
Adhesion strength by pull off test	$\geq 2,0 \text{ N/mm}^2$
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.

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.