



TIKKURILA

FINNSECO VALULAASTI

CASTING MORTAR CONTAINING A WATER-REDUCING AGENT AND CEMENT USED AS A BINDER

DESCRIPTION	Mortar containing a water-reducing agent and cement used as a binder; maximum grain size: 3.0 mm.
RECOMMENDED USES	Mineral structures both indoors and outdoors requiring structural strength and good frost resistance.
PRODUCT FEATURES	Repair of concrete structures, jointing of elements, minor casting such as repairs of top-floor slopes. Recommended layer thickness 10-50 mm. Stress class XF 4, XC 4, XS 2, XD 3 (50 years of planned use time) – XF 3, XC 4, XS 2, XD 3 (100 years of planned use time).



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: 12–13 l of ready mix / 25 kg dry product.
Can sizes	25 kg, 1000 kg
Mixing ratio	Water requirement: 2.5-3.5l water/ 25kg dry product.
Pot-life (+20°C)	approx. 1 hour.
Density (kg/l)	Ready mix approx. 2.0 kg/l.
Adhesive strength (EN 1542)	> 1.5 N/mm ²
Compressive strength	1 day approx. 10 N/mm ² 7 days approx. 40 - 28 N/mm ² 50 days approx. 45 - 50 N/mm ²
Shrinkage	< 1.0 ‰
Storage	In dry place (away from floor), protect from humidity.



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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 l water / 3,5 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 matte damp and absorbent. On smooth and unevenly absorbent surfaces, Finnseco Grout should be used.

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. 5 minutes after mixing, then re-mix. Find the right consistency for the mortar during re-mixing by adding the final amount of water, if necessary. You should not measure the maximum amount of water 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 running casting concrete firmly on the substrate. The casting is carried out immediately on top of the fresh bonding 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.

Aftercare

The repaired area must always be maintenance treated with moisturizing the surface with clean water and/or covering the surface with plastic for 2 to 5 days, depending on the circumstances.

Cleaning of tools


Clean tools immediately after use with water.



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EN 1504-3:2006

	
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Tikkurila Oyj Kuninkaalantie 1 FI-01300 Vantaa	
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TIK-1630-5013	
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	$\leq 0,5 \text{ kg/(m}^2 \cdot \text{h}0,5)$
Capillary water absorption	$\leq 0,5 \text{ kg/(m}^2 \cdot \text{h}0,5)$
Carbonation resistance	approved ¹⁾
Coefficient of elasticity	$\geq 15 \text{ kN/mm}^2$
Chloride ion content	$\leq 0,05 \%$
Skid resistance	NPD
Coefficient of thermal expansion	NPD
Adhesion after thermal compatibility	$\geq 1,5 \text{ N/mm}^2$
Reaction to fire	A 1
Compressive strength	Class R3
Adhesion strength by pull off test	$\geq 1,5 \text{ N/mm}^2$
Release of dangerous substances	NPD

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

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