



TIKKURILA

FINNSECO POLYTOP

FINISHING MORTAR

DESCRIPTION

Polymer-modified cement mortar that slows down the penetration of moisture and carbon dioxide into the underlying concrete. Finnseco Polytop, gray: SILKO-approved (3.231).

RECOMMENDED USES

Residential, commercial, industrial and storage buildings and others.

PRODUCT FEATURES

Special leveling mortar for clean, e.g. sand-blasted concrete, protecting the underlying concrete against carbonation and moisture by making the surface more impermeable and forming a smooth surface for the actual coating. Also suitable for finishing untreated exposed-aggregate surfaces.



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	Approx. 4 kg/m ² (= approx. 2 mm coat) Grade 0–0.6 mm.
Can sizes	25 kg
Mixing ratio	Consumption: approx. 1.8kg/m ² /mm of dry product on even surface (min. layer thickness is 2mm). Maximun layer thickness with one treatment is 5mm. Water requirement: 4.5-5.5l water/ 25kg dry product.
Application method	Spray application with a plaster spray gun (min. nozzle size 7 mm) or manual application with a steel trowel.
Pot-life (+23°C)	Approx. 30 minutes. (+20 °C)
Pot-life (+20°C)	approx. 1h
Drying time (23°C and 50% relative air humidity)	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 coat.
Density (kg/l)	Ready mix approx. 2–2.1 kg/l.
Adhesive strength (EN 1542)	Finnseco Polytop gray: 1.2 N/mm ²
Adhesive strength (EN 1015-12)	Finnseco Polytop white: on concrete > 0.3 N/mm ²
Compressive strength	Finnseco Polytop gray: 35 N/mm ² Finnseco Polytop white: 30 N/mm ²
Flexural strength	Finnseco Polytop gray: 4.0 N/mm ² Finnseco Polytop white: 3.5 N/mm ²
Shrinkage	Approx. 0.8 (28 days).
Freeze-thaw cycling with de-icing salt immersion	Finnseco Polytop gray: 2.0 N/mm ²
Storage	In dry place (away from floor), protect from humidity.

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APPLICATION INSTRUCTIONS

Application conditions

The temperature of the air, filler 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 needed: approx. 1.8 kg/mm/m² of dry product for an even surface (minimum layer thickness 2 mm). The maximum layer thickness for a single application is 5 mm. Amount of water needed: 4.5–5.5 l water to 25 kg dry product.

Surface preparation

Remove the existing coating or paint by sand-blasting. Remove any loose or damaged concrete, expose the corroded reinforcement bars by chipping and clean them of rust to at least grade St2. Carefully remove all grinding and chipping waste. Treat the cleaned steel with Finnseco-KOR anti-corrosion paint and make any required repairs with Finnseco repair mortars according to the work instructions.

MIXING THE MORTAR

Add Finnseco Polytop filler mortar into clean water (4.5–5.5 l of water to 25 kg of mortar) and mix mechanically to an even consistency. Let the mix stand for approx. 5 minutes before mixing again and starting work.

Tinted Finnseco Polytop filler mortar is prepared by mixing a 25-kilogram sack of Valkoinen Finnseco Polytop sack mechanically with 4–4.5 l of clean water to an even consistency. Add a one-liter jar of Finnseco Sävytyspasta into the mix and stir. Rinse any leftover paste from the jar with approx. half a liter of water. Pour the rinsing water into the mix and stir. Let the mix stand for approx. 5 minutes before mixing again and starting work. You should use the same amounts of water and consistent mixing times across batches to maintain a uniform result.

Top coating

Wet the surface thoroughly 1 to 2 hours before starting to apply the coating. You can start applying the mortar when the surface is no longer glossy.

Spraying

Spray the mortar on mechanically and level it with a steel or cellular rubber float. You can finish the surface lightly with a sponge float in 10–40 minutes from application, according to the conditions.

On exposed-aggregate surfaces, brush the mortar into a compact coat 2–3 mm thick on the substrate immediately after spraying. Finish the following day by spraying a thin coat of mortar onto the surface.

Application with a trowel

Apply a 2–3 mm thick coat of mortar manually with a steel or cellular rubber float. You can finish the surface lightly with a sponge float in 10–40 minutes from application, according to the conditions.

NOTE!

Only mix as much mortar as you can use in 30 minutes.

When treating a substrate containing asbestos, follow the Government Decision on Asbestos Work (1380/1994) and the related

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Decrees 318/2006 and 863/2010.

Aftercare

Cure the surface coated with Finnseco Polytop filler mortar by spraying it twice a day with clean water for 2 to 4 days. If the Finnseco Polytop surface is not going to be painted or otherwise coated, you should treat it with Alfasil silicone protection by applying the product "wet-on-wet" according to the instructions in the product data sheet.


Cleaning of tools

Clean tools immediately after use with water.

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EN 1504-3:2005

Finnseco Polytop, grey

	
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TIK-1630-5004	
EN 1504-3:2005	
Product for protection and repair of concrete structures – Non-structural repair.	
Carbonation resistance	approved ¹⁾
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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