



TIKKURILA  
**FINNGARD 500**  
PROTECTIVE COATING



- DESCRIPTION** Water-borne, alkali-resistant, hydrophobic, paint-like acrylic coating that protects concrete against humidity and carbonation. Maximum grain size approx. 0.5 mm. SILKO approved (3.253).
- RECOMMENDED USES** Residential, commercial, industrial and storage buildings and others.
- PRODUCT FEATURES** Suitable for painting concrete structures, wallboards and surfaces rendered with a cement mortar.





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## FINNGARD 500

### TECHNICAL DATA

<b>Base paints</b>	FFA BASE, FFC BASE
<b>Colour Shades</b>	Tikkurila Facade 760 colour map. Tinted with Avatint tinting pastes.
<b>Gloss</b>	Full matt. (6/RT classification)
<b>Coverage</b>	3–5 m <sup>2</sup> /l, one coat. Coverage is affected by the roughness and porosity of the surface as well as the painting method and conditions.
<b>Can sizes</b>	FFA BASE: 18 l FFC BASE: 18 l
<b>Thinner</b>	Water
<b>Application method</b>	Roller, brush or spray with elevated tank or high pressure application (min. nozzle size 0.043" or 1.09 mm, spray angle 60°).
<b>Drying time (23°C and 50% relative air humidity)</b>	Recoatable after 12 hours.
<b>Density (kg/l)</b>	Approx. 1.4 kg/l, ISO 2811
<b>Water vapour resistance (EN ISO 7783)</b>	$s_D \leq 0,5 \text{ m}$
<b>Water permeability (EN 1062-3)</b>	$w < 0,1 \text{ kgm}^{-2}\text{h}^{-0.5}$ .
<b>Permeability to CO<sub>2</sub> (EN 1062-6)</b>	$s_D > 200 \text{ m}$
<b>Adhesive strength (EN 1542)</b>	$> 1,5 \text{ N/mm}^2$ .
<b>Weather resistance</b>	Good, also in maritime and industrial climate. Prevents the penetration of rain and splashes into the construction. Allows water to come through from inside as a vapour.
<b>Fire class</b>	F (NPD)

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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<b>Volume solids (%)</b>	50
<b>VOC</b>	(Cat A/c) 40g/l (2010) Finngard 500 contains VOC max. 40g/l.
<b>Storage</b>	Protect from frost. The temperature of the product or container may not exceed +35°C. Do not store in direct sunlight, even under a protective tarpaulin. Tinted product, or a product kept in an improperly closed or half-empty can will not withstand long-term storage. Protect from frost

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## APPLICATION INSTRUCTIONS

### Application conditions

The temperature of the surface to be treated and air must be at least +5 °C and the relative humidity of air below 80%. Do not paint in strong sunlight.

### Surface preparation

Unpainted surfaces:

The substrate has to be sufficiently dry and hardened before the finishing treatment. Among other things, the drying and hardening time is affected by the working conditions and the thickness of the plaster layer, if any.

Clean the unpainted surfaces of any dirt, dust and salt. Surfaces with mold, moss etc. are cleaned with Tikkurila Homeenpoisto in accordance with the instructions. Highly porous concrete surfaces should be leveled with Finnseco Polytop filler mortar or Finnseco Ylitasoituslaasti.

Previously painted surface:

Clean the surfaces of dirt, dust and salt. Surfaces with mold, moss etc. are cleaned with Tikkurila Homeenpoisto in accordance with the instructions. Remove any flaking and poorly adhering paint coats. Select the removal method according to the strength of the substrate and paint type (e.g. wire brushing, pressure washing with hot water or wet sand-blasting).

Carry out necessary concrete repair, patching and filling using the Finnseco products as instructed.

### Priming

The need for priming is determined case by case. Prime chalking surfaces with Tikkurila Hydrosolipohjuste. The water-repellency of the substrate can be improved with Tikkurila Silikonipohjuste. Follow the instructions of the product in question when priming.

Apply two coats. The paint can be thinned up to 5 % with water for priming, if necessary. Finish with unthinned paint. Stir Finngard 500 well before use. Reserve enough paint from the same batch for one uniform surface, to avoid possible colour differences. Should you need to use two different production batches, paint the joints with a solution of 1 part of old batch and 1 part of new batch. Make sure that this joint is in as inconspicuous point as possible.

The paint should be applied without interruptions.

The recommended coverage values should be followed to ensure the best protection ability.

Protect the surfaces not to be painted.

### Coating

Apply two coats of the product. If needed, the primer can be thinned for priming up to 5% with water. For finishing, use unthinned primer. NOTE Stir Finngard 500 thoroughly before use. Reserve enough coating from the same production batch for a uniform surface. Should you need to use different production batches, paint the area between the old and new batch with a 1:1 mix of the old and new coating. Arrange the work such that the transition between the paint batches is as inconspicuous as possible. Paint uniform surfaces without interruption. Follow the recommended coverage values to ensure that the coating provides sufficient protection. Surfaces intended to be left unpainted must be protected for the duration of the work. Mechanical stresses can cause lighter marks, in particular with dark painted surfaces. This is a typical product feature of all matte facade paints which does not affect the technical functionality of the product.

### Note

Mechanical stress can cause lighter visible spots, in particular, in darker painted surfaces. This is a typical feature for all matt facade paints which does not, however, affect the product's technical performance.

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## Cleaning of tools

Clean tools with water. Tikkurila Pensselipesu Tool Cleaner is recommended to remove slightly hardened paint.

## Maintenance instructions

Dirty surfaces can be carefully washed with a pressure washer without any detergent no earlier than one month after the surface treatment. The washing may leave permanent marks on the surface, so the area to be washed should be designed inconspicuously following the lines of the structure. It is recommended to remove any loose dirt dry with a soft brush, avoiding abrasion.

Remove algae or mold with Tikkurila Homeenpoisto and rinse thoroughly. NOTE: Surfaces must always be retreated after mold removal.

## Maintenance treatment

Surfaces painted with Finngard 500 can be re-painted with Finngard 150, Finngard 500 or Finngard Silicone Resin Paint.

## Environmental protection and waste disposal


Avoid spillage into drains, water systems and soil. Destroy liquid waste according to the local regulations for hazardous waste. Recycle empty, dry cans or dispose them of in accordance with local regulations.

## Health and Safety

Harmful to aquatic life with long lasting effects. Contains 1,2-benzisothiazol-3(2H)-one (BIT) and reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) (C(M)IT/MIT (3:1)). May produce an allergic reaction. Avoid release to the environment. Wear protective gloves. This product contains a biocidal product for the preservation of the product during storage. Contains: reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) (C(M)IT/MIT (3:1)).

# FINNGARD 500

EN 1504-2:2004

	
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Tikkurila Oyj Kuninkaalantie 1 FI-01300 Vantaa	
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TIK-0574-5001	
EN 1504-2:2004	
Product for protection and repair of concrete structures – Coating.	
Permeability to CO <sub>2</sub>	s <sub>D</sub> > 50 m
Reaction to fire	F (NPD)
Adhesion strength by pull off test	≥ 1,0 N/mm <sup>2</sup>
Release of dangerous substances	NPD
Water permeability	w < 0,1 kg/m <sup>2</sup> • h <sup>0,5</sup>
Permeability to water vapour	class I, s <sub>D</sub> < 5 m

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