



TIKKURILA

FINNGARD HYBRISIL

NANOCOMPOSITE PAINT FOR MASONRY FACADES

DESCRIPTION

Water-borne self-cleaning facade paint based on nanotechnology.

RECOMMENDED USES

Residential, commercial, industrial and storage buildings and others.

PRODUCT FEATURES

Suitable for the outdoor painting of concrete and cement-reinforced (more than half of the binder in the gauged mortar consists of cement) rendered 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

Base paints	FLA BASE
Colour Shades	Colours marked in Tikkurila Facade colour map. Tinted with Avatint Facade tinting pastes.
Gloss	Full matt. (6/RT classification)
Coverage	4-6 m ² /l on one layer, depending on surface roughness and porosity, and application methods and conditions.
Can sizes	18 l
Thinner	Water
Application method	Roller, brush, spraying Airless spraying. -nozzle: 0.013"-0.019" -amount of thinner: 0-5% by volume.
Drying time (23°C and 50% relative air humidity)	Recoatable after 12 hours.
Density (kg/l)	approx. 1.2-1.4 kg/l, ISO 2811 (according to color)
Water vapour resistance (EN ISO 7783)	$S_{d,H_2O} < 0,2 \text{ m.}$
Water permeability (EN 1062-3)	$w_{24} < 0,1 \text{ kgm}^{-2}\text{h}^{-0,5}$
Permeability to CO2 (EN 1062-6)	$S_{d,CO_2} > 50 \text{ m.}$
Adhesive strength (EN 1542)	$> 1,5 \text{ N/mm}^2$ (on concrete).
Weather resistance	Good, also in industrial and marine environments. Allows internal moisture to permeate as steam.
Volume solids (%)	35
VOC	(cat A/c) 40g/l (2010). Finngard HybriSil contains VOC max 40g/l.

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Storage

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.

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APPLICATION INSTRUCTIONS

Application conditions

The surface to be painted must be dry, the ambient temperature at least +5 °C and the relative humidity of air below 80%, also during drying. Do not apply in strong sunlight.

Surface preparation

Unpainted surfaces:

New concrete and plaster surfaces must be sufficiently dried and hardened before the surface treatment. Treat concrete element surfaces at the earliest after one heating period, according to the structure. Drying and hardening times depend on e.g. the composition of the rendering surface (e.g. lime-concrete ratio), on environmental conditions and on the thickness of the layer.

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. Smooth, glassy concrete surfaces must always be treated mechanically to create an appropriate surface profile and remove any laitance. Concrete surfaces with a lot of pores are recommended to be leveled with Finnseco Polytop mortar or Finnseco Leveling Render.

Previously painted surface:

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

Perform the required repairs, patching and leveling with Finnseco products according to their instructions.

Make necessary plastering repairs with suitable plasters to the level and structure of the surrounding surface.

Priming

Always apply water-borne Tikkurila Hydrosol Primer on untreated or previously painted surfaces, in accordance with the instructions for its use.

Painting

The surfaces are painted twice. At the earliest, the painting may be started on the day after priming. The drying time between the two coats of paint should be at least 12 hours. If required, the Finngard HybriSil façade paint may be distilled with up to 5% water.

NOTE

Finngard HybriSil is stirred comprehensively before use. Reserve enough paint from the same production batch for uniform color 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 paint. Arrange the work so that the transition between the paint batches is as inconspicuous as possible.

Uniform surfaces are painted without interruption.

When handling a surface containing asbestos, the Government Decision on Asbestos Work (1380/1994) and the related Decrees 318/2006 and 863/2010 must be followed.

Surfaces intended to be left unpainted must be protected for the duration of the work.

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Mechanical stresses can cause lighter marks, in particular with dark painted surfaces. This is a typical product feature for all matte façade paints, which however has no influence on the product's technical functionality.

Note

Mechanical stress may cause visible marks in painted surface, especially in dark colours. This is a typical product feature for all matt façade paints, which however has no influence in the product's technical functionality.

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 painting. The washing may leave permanent marks on the surface, so wash a logical area following the lines of the structure in order to avoid leaving conspicuous edges. Clean dry, loose dirt lightly with a soft brush, without rubbing the surface.

Remove alga or mold with Tikkurila Homeenpoisto (Mold Removal) and rinse thoroughly. NOTE! Surfaces must always be retreated after mold removal.

Maintenance treatment

Finngard HybriSil or Finngard Silicone Resin Paint is suitable for maintenance painting of surfaces painted with Finngard HybriSil façade paint.

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