

TIKKURILA FINNGARD SILICONE PROTECT

Silicone paint for facades

DESCRIPTION AND USE

Waterborne, silicone facade paint. For use on traditional lime-cement and cement plasters, mineral plasters thin-film polymer, acrylic and concrete surfaces. Can be used for renovation of dispersion and mineral (silicate) surfaces. Especially recommended for renovation of thermal insulation systems made of expanded polystyrene and mineral wool. The product is suitable for use inside the buildings for areas not intended for permanent human stay (for example: garages, basements, warehouses, etc.).

ADVANTAGE AND CHARACTERISTICS



- **Creates a hydrophobic surface with low water absorption, ensuring high durability levels**
- Vapor permeable – allows moisture to be drained from the wall
- Surface highly resistant to fungi, molds and algae growth
- Resistant to dirt
- Available in a wide range of colors from Tikkurila Facade 760 color card

TECHNICAL DATA

Physical properties acc. to norm PN-EN 1062-1 (2005):

Technical parameter	Designation acc. to norm	Result
Mirror gloss G	PN-EN ISO 2813: : 2014-11	G3 matt
Coat thickness E μm	PN-EN 1062-1:2005P	E2 50<E2=<100
Category grain size S μm	PN-EN ISO 1524:2013:06E	S1 small
Factor of water vapor permeability / vapor permeability V $\text{g}/(\text{m}^2\cdot\text{xd})$	PN-EN ISO 7783:2012	V2 medium
Water permeability / water absorption W $\text{kg}/(\text{m}^2\cdot\text{h}^{0,5})$	PN-EN 1062-3:2008P	W3 small
Carbon dioxide permeability C $\text{g}/(\text{m}^2\cdot\text{xd})$	PN-EN 1062-6:2003P	C ₀

Others technical data:

Technical parameter	Designation acc. to norm	Result
Density	PN-EN ISO 2811-1: 2016 2012P	Approx. 1,5kg/l
Solid content	PN-EN ISO 3251:2008P	Approx. 60%
The peel adhesion, rigid systems without the motion load	PN-EN 1542:2000	$\geq 1,0 (0,7)^b$

The results of the study are average values. Natural raw materials used may have a slight impact on the actual values in the table. The quality and characteristics of the product are retained.

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COLORS:

Base AP and C.

Colors from Tikkurila Facade 760 Color card and chosen colors from NCS and RAL color card. It is recommended to perform the appropriate color test on the area 1-2 m².

When choosing colors for facades, especially those exposed to the intense impact of sunlight, which can significantly heat this surface, we recommend the use of colors with a higher reflectance. We recommend using colors from Classic color pallet, with a light reflection factor higher than 40%.

The values of the reflectance of light are given in the color card Tikkurila Facade 760.

APPLICATION INSTRUCTIONS

Application method:

Roller, spray or brush.

Surface preparation:

The substrate must be load-bearing, dry and clean. Humidity of painted substrates should not exceed 4%. Products can be applied min. 16 hours after priming with Tikkurila Finngard Uni Primer. The product is suitable for use in commercial form, and before use requires careful mixing, if necessary thin the paint max. up to 5% with water. Apply two coats in min. 12 hours intervals. In order to avoid streaking and discoloration apply the paint in continuously way. Technological breaks schedule at the edges of the walls. Provide adequate amount of paint from one production batch. The paint from different batches should be mixed before use. Do not apply on lime coatings.

Raw surfaces (previously not painted):

The surfaces of new cement-lime, cement and concrete seasoned min. 4 weeks. Remove loose particles from the surface, dirt, greasy stains and salt efflorescence. Remove algae, lichens and fungi with Tikkurila Homeenpoisto or Bio wash Cleaner according the instruction of their use. Wash the facade with water at high pressure. Unevenness and cracks equalize with mortar with composition similar to the original. Prime the surface with Tikkurila Finngard Uni Primer.

Previously painted surfaces:

Remove loose and detached elements of the surface, peeling paint, dirt, greasy stains and salt efflorescence. Wash the facade with water at high pressure. Permanently remove algae, lichens and fungi with Tikkurila Homeenpoisto or Bio wash Cleaner according the instruction of their use. Remove the chalky substrate (e.g by blasting). Unevenness and cracks equalize with mortar with composition similar to the original. Prime the surface with Tikkurila Finngard Uni Primer. Before the renovation of old coatings should be performed test application that will assess the adhesion of the new paint to the painted surface, e.g by cross-cut and allow for evaluation of the appearance and color of the coating. A positive result determines the use of the product.

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Atmospheric conditions during and after application:

Work at air and substrate temp. not lower than +5°C and not higher than +25°C. Avoid direct sunlight, relative humidity > 80%, rain and frost. Protect the paint coating from rain for min. 48 hours - the optimum temperature and humidity conditions (temperature +20°C, relative humidity below 55%). This interval under conditions of elevated humidity and lower temperatures of air and ground may be extended.

Notice and recommendations:

Use the set: primer and facade paint by Tikkurila. Do not apply on horizontal surfaces exposed to direct contact with weather conditions: rain, snow. The manufacturer is not responsible for poor quality coating in case when above instructions are disregarded. It is recommended to use ANZA painting tools during application.

Coverage:

6-9 m²/l per one coat, depending on the absorbency and structure of the substrate, application method and painting tool used. Attempt to determine the performance for a given substrate. Make test painting in order to determine the coverage of the substrate.

Drying time:

In temperature +23 ±2°C, and relative air humidity 50 ±5%, the surface is dry in 3 hours. Apply next coat after min. 12 hours. The drying times and recoating depends on film thickness, temperature, relative humidity during painting.

Tools cleaning:

Before washing tools should be thoroughly wiped in order to remove as much paint. Clean tools with water immediately after the completion of the work.

NOTICE:

The condition of the durability of painted surface is to carry out, according to the construction art, such elements as for example: horizontal and vertical insulation of the building, flashing treatment, guttering and others.

In this technical data sheet, it is impossible to describe all aspects of the use of the product. In cases that are not described above, please contact the Technology Advisor. We will gladly provide you with detailed information related to a particular object.

BEZPIECZEŃSTWO PRODUKTU**Environmental**

Empty containers and packaging containing residues of paints pass to the point for the collection of this waste. Detailed information on the possibility of collecting waste from your local Municipal Office.

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Work health and safety and fire protection measures:

Harmful to aquatic life with long lasting effects. Contains reaction mass of: 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)), 1,2-benzisothiazol-3(2H)-one (BIT), 2-methyl-2H-isothiazol-3-one (MIT) and 4,5-dichloro-2-octyl-2H-isothiazol-3-one (DCOIT). May produce an allergic reaction. Avoid release to the environment. This paint contains a biocidal product for the preservation of the dry film. Contains 4,5-dichloro-2-octyl-2H-isothiazol-3-one (DCOIT) and 3-iodo-2-propynyl butylcarbamate (IPBC). 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)), 2-methyl-2H-isothiazol-3-one (MIT) and 1,2-benzisothiazol-3(2H)-one (BIT). Wear appropriate work clothing and protective gloves when painting. Safety Data Sheets available on customer request.

Storage and transport:

Transport and storage at temperatures between +5°C and +25°C, in packaging protected against the effects of weather conditions. Protect from frost.

VOC:

Cat. A/c. Permissible content of VOCs from 2010. - 40 g/l. The product contains less than 40 g/l of VOC.

Shelf life:

36 months from production date, in factory closed packaging.

Packaging:

0,9 l; 2,7 l; 9 l.

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39-200 Dębica, Polska
TIK-PL1\FSP\2018
EN 1504-2:2004

EN: Surface protection products – Coating

Moisture control (2.2)

Increasing resistivity (8.2)

Water vapour permeability Class II, $5m \leq s_D \leq 50 m$

Capillary absorption and permeability to water $w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$

Adhesion strength by pull off test $\geq 1,0 \text{ N/mm}^2$

„The above information is not exhaustive and complete. The data is based on laboratory research and practical experience and is passed to the best of our knowledge. The quality of the product is guaranteed by our production system based on the requirements of ISO 9001 and ISO 14001 standards. As a manufacturer, we can not control the conditions under which the product is used or the variety of factors that affect the use and application of the product. We do not take any responsibility for damages caused by using the product in a manner inconsistent with the recommendations and for improper purposes. We reserve the right to change the information provided without prior notice.“