



TIKKURILA

## KIVISIL

SILICONE RESIN PAINT FOR MASONRY FACADES

### DESCRIPTION

Water-borne silicone emulsion paint.

### RECOMMENDED USES

Residential, commercial, industrial and storage buildings and others.

### PRODUCT FEATURES

For exterior painting of concrete, plaster and mineral plate surfaces.



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## TECHNICAL DATA

<b>Base paints</b>	LA BASE, LC BASE
<b>Colour Shades</b>	<b>Color cards:</b> Masonry Facades colour card, Masonry facades 2018 colour card, Facade 760 colour collection Can be tinted in Tikkurila exterior colors.
<b>Gloss</b>	Full matt.
<b>Coverage</b>	5-6 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>	LA BASE: 0.9 l, 2.7 l, 9 l, 18 l LC BASE: 0.9 l, 2.7 l, 9 l, 18 l FACTORY READYMADE SHADE: 800 l
<b>Application method</b>	Roller, brush or spray.  Airless spraying - nozzle 0.027"–0.029"; in-handle filter 0.56 mm - thinning 0–10% by volume
<b>Drying time</b>	Recoatable after 12 hours.
<b>Density (kg/l)</b>	approx. 1.5 kg/l, ISO 2811
<b>Water vapour resistance (EN ISO 7783)</b>	$s_{d,H_2O} < 0,14 \text{ m}$
<b>Water permeability (EN 1062-3)</b>	$w < 0.1 \text{ kg/m}^2\text{-h}^{0.5}$ (painting system comprises Kivisil Pohjuste and Kivisil facade paint).
<b>Permeability to CO<sub>2</sub> (EN 1062-6)</b>	$s_{d,CO_2} < 5 \text{ m}$ .
<b>Adhesive strength (EN 1542)</b>	$> 1,0 \text{ N/mm}^2$ , 28 days on concrete (painting system comprises Kivisil primer and Kivisil facade paint).
<b>Weather resistance</b>	Good, also in industrial and maritime atmospheres. Prevents the penetration of rain and splashes into the construction though at the same time lets through water as vapour from inside.

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<b>Volume solids (%)</b>	40-45 (depending of the color)
<b>VOC</b>	EU VOC- limit value (cat A/c) 40g/l(2010). Kivisil contains/ VOC max. 40 g/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.

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## APPLICATION INSTRUCTIONS

### Application conditions

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

### Surface preparation

Unpainted surfaces:

A new concrete or plaster surface must be dry and hardened before it is painted. The drying and hardening time depends, among other things, on the consistency of the concrete or plaster used (such as the ratio of lime and cement), drying and hardening conditions and the thickness of the plaster layer.

Clean the unpainted surfaces of any dirt, dust and salt. If a surface has mold, moss etc., wash it with Tikkurila Homeenpoisto according to instructions, working from the bottom to the top. Concrete surfaces that have been cast with formwork must be treated mechanically (e.g. sand-blasted) to create an appropriate surface profile. Remove any glassy and glossy cement stone from the surface using sand-blasting, a grinding stone for grinding concrete or pressure cleaning with added sand.

Previously painted surfaces:

Clean the surfaces of any dirt, dust and salt. If a surface has mold, moss etc., wash it with Tikkurila Homeenpoisto according to instructions, working from the bottom to the top. Remove any flaking, poorly adhering or powdery paint coats from previously painted surfaces. Choose the removal method according to strength of the substrate and type of paint to be removed (e.g. wire brush, pressure washing with hot water or wet sand-blasting). Also remove any poorly adhering, fragile plaster or concrete. Open any cracks by chiseling or angle grinding, for example. Remove any rust from the reinforcing bars and apply protective paint.

### Patching

Patch e.g. any open cracks to be flush with the surface. For concrete surfaces, use Finnseco repair mortar and for plaster surfaces, use lime cement mortar.

### Painting

It is recommended to apply Kivisil facade paint either with the 2-step or the 3-step method:

a) The 2-step application method:

Prime the surfaces with a mix of Tikkurila Pohjustegeeli and Kivisil facade paint, adding 1 liter of Pohjustegeeli into a 10-liter container of Kivisil facade paint. Stir the mixture of Pohjustegeeli and Kivisil facade paint thoroughly before use (approx. 5 minutes with a machine). If necessary, thin the mixture with water max. 5% (rinse the container of Pohjustegeeli with the water used for thinning). Use the finished mixture within 24 hours. Apply one coat of unthinned Kivisil facade paint (without adding Pohjustegeeli) after a minimum of 12 hours from the priming.

b) The 3-step application method:

Prime the surface with water-borne Tikkurila Kivisil Pohjuste by using the "wet-on-wet" method. Mix 1 part of Kivisil Pohjuste with 9 or 19 parts of water depending on the application. For improving the water-repellency of hard substrates, use the mixing ratio of 1:19 (mix 1 part of Kivisil Pohjuste with 19 parts of water). If Kivisil Pohjuste is used with the mixing ratio of 1:9, the mixture also strengthens the plaster substrate.

Apply two coats of Kivisil facade paint. The paint can be applied when the substrate has absorbed the primer (the surface is not

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glossy). The drying time between the two coats of paint should be at least 12 hours. For the first coat, Kivisil facade paint can be thinned with water up to 5–10%.

The 3-step method provides the best water-repellency properties and protection, e.g. against the corrosion of concrete reinforcing bars. The 3-step method, along with careful pretreatment, is also recommended if the old paintwork is chalking.

## Note

Stir Kivisil facade paint thoroughly before use. For achieving a uniform surface and avoiding color differences, reserve enough paint from the same production batch. If, however, it is necessary 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 such that the transition between the paint batches is as inconspicuous as possible.

Protect any windows before priming and painting. Remove any splashes immediately from the windows. Apply the paint without interruptions to avoid overlapping. 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.

## Cleaning of tools

Clean tools with water.

## Maintenance instructions

Dirty surfaces painted with Kivisil facade paint 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 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.

For removing algae and mold, use Tikkurila Homeenpoisto and rinse thoroughly according to instructions. NOTE! The surface must be treated again always after mold removal.

## Maintenance treatment

A surface painted with Kivisil facade paint can be maintenance painted with Kivisil facade paint or Finngard Silikonihartsimaali. See Pretreatment and Painting.

## 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

**Contains:** 4,5-dichloro-2-octyl-2H-isothiazol-3-one (DCOIT). **Warning.** May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves. **IF ON SKIN:** Wash with plenty of soap and water. Contains small amounts of sensitizing substances: 1,2-benzisothiazol-3(2H)-one (BIT) and reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (C(M)IT/MIT (3:1)). This product contains a biocidal product for the preservation of the product during storage. Contains C(M)IT/MIT (3:1).



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