

TIKKURILA

KIVITEX

SILICATE PAINT FOR EXTERIOR AND INTERIOR USE

DESCRIPTION	Inorganic, potassium silicate-based, one-component silicate paint.
RECOMMENDED USES	Residential, commercial, industrial and storage buildings and others. Also suitable for special sites such as air-raid shelters, water towers, underpasses, etc.
PRODUCT FEATURES	For interior and exterior painting of concrete, lime plaster, lime-cement plaster, cement plaster and sand-lime brick surfaces. Also suitable for substrates previously painted with lime, lime cement, cement or silicate paint. See directions for use.

RAKENNUSTIETO · M1 · EMISSION CLASSIFICATION

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	SA BASE
Colour Shades	**Color cards:** Masonry Facades colour card, Masonry facades 2018 colour card Light shades can be tinted in Tikkurila exterior colors. In addition the following colors for interior use: G497, G467, G484, H466, H484, H497, X450, X459, X487, Y458, Y462, Y487
Gloss	Full matt.
Coverage	approx. 3-5 m²/l on one coat. Coverage is affected by the roughness and porosity of the surface as well as the painting method and conditions.
Can sizes	2.7 l, 9 l, 18 l
Application method	Lime paint brush or roller.
Drying time	Recoatable after 12 hours.
Density (kg/l)	Approx. 1.4 kg/l, ISO 2811
Water vapour resistance (EN ISO 7783)	$s_{d,H2O}$ < 0,14 m.
Permeability to CO2 (EN 1062-6)	$s_{d,CO2}$ < 1 m.
Adhesive strength (EN 1542)	> 0,8 N/mm^2. (ISO 4624)
Weather resistance	Good, also in industrial and maritime atmosphere.
VOC	(cat A/a) 30g/l (2010) Kivitex contains VOC max. 30g/l
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 clean, dry and firm, the temperature of the air and surface at least +5 °C and the relative humidity of air below 80%. To avoid color differences, do not paint in strong sunlight or in the rain.

Surface preparation

Unpainted exterior surfaces:

New concrete surfaces must be sufficiently dried and hardened before the surface treatment. Before painting, it is recommended to allow concrete surfaces to dry for a minimum of one heating period, depending on the structure. New plaster surfaces must be dry and hardened before painting. The drying and hardening time depends, among other things, on the consistency of the 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. If necessary, concrete surfaces must be treated mechanically (e.g. sand-blasted) to create an appropriate surface profile. Remove any glassy and glossy laitance from the surface using sand-blasting, a grinding stone for grinding concrete or pressure cleaning with added sand.

Previously painted exterior 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. Organic paints or coatings must be removed completely with a paint remover and pressure washing with hot water or sand-blasting. 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. 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.

Unpainted interior surfaces:

New concrete surfaces must be sufficiently dried and hardened before the surface treatment. New filler-treated or plaster surfaces must be dry and hardened before painting.

Clean the unpainted surfaces of any dirt, dust and other impurities.

Previously painted interior surfaces:

Clean the surfaces of any dirt, dust and other impurities. If necessary, wash the surfaces with Tikkurila Maalipesu according to instructions. Remove any flaking, poorly adhering or powdery paint coats (such as lime paint) from the previously painted surface. Sand any glossy, well adhering paint coats non-glossy.

Patching

Patch any open cracks, holes and pits to be flush with the surface. For concrete surfaces, use a suitable Finnseco repair mortar and for plaster surfaces, use lime or lime cement mortar. Ensure thorough curing of the patches and let them harden before painting.

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Priming

Solid exterior surfaces, priming:
Prime solid, firm and hard surfaces, such as concrete, with one coat of a mixture comprising one part of Tikkurila Silikaattipohjuste and two parts of Kivitex silicate paint.

Porous exterior surfaces, priming:
Prime porous, absorbent substrates, such as plaster and sand-lime brick surfaces and substrates previously painted with lime, lime cement, cement or silicate paints by using the “wet-on-wet” method with a 1:1 mixture of Silikaattipohjuste and water.

Interior surfaces, priming:
Separate priming is not necessary when painting interior surfaces.

Solid exterior surfaces, finishing:
No earlier than 12 hours after priming, finish with Kivitex silicate paint, which can be thinned up to 10% with water.

Porous exterior surfaces, intermediate coating:
Apply the intermediate coating no earlier than 12 hours from priming. For intermediate coating, Kivitex silicate paint can be thinned up to 10% with Silikaattipohjuste.

Porous exterior surfaces, finishing:
Apply the finishing no earlier than 12 hours from intermediate coating. For finishing, Kivitex silicate paint can be thinned up to 10% with water.

Interior surfaces, painting:
Apply a base coat of Kivitex silicate paint. Finish with Kivitex silicate paint at the earliest after 12 hours from applying the base coat. Kivitex silicate paint can be thinned up to 10% with water.

Note

Stir Kivitex silicate 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 surfaces not to be painted, such as windows, natural stone, clinker-tiled or metal surfaces, for the duration of the work. Remove any splashes of paint immediately with clean water.

Apply the paint without interruptions on large surfaces to avoid overlapping.

The variable porous structure of the substrate and variations of moisture and temperature during the application and drying of the paint may cause color variations.

Mechanical stresses can cause visible marks on the painted surface. This is a typical product feature of matte paints which does not affect the technical functionality of the product.

Cleaning of tools

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

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Maintenance instructions

Dirty exterior surfaces painted with Kivisil silicate paint 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.

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

If necessary, interior surfaces can be cleaned with a dry brush, mop or dust cloth after approx. one month of the surface treatment, at the earliest.

Maintenance treatment

Surfaces painted with Kivitex silicate paint can be maintenance painted with Kivitex silicate paint or Finngard Silikaattimaali. 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: potassium silicate. **Danger.** Causes serious eye damage. 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. Wear eye or face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.



GHS05

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