Hansa Silicate

Silicate paint for mineral facades

- **Very good water vapor permeability**
- **Forms water repellent surface**
- **Good weather resistance**
- **Easy to clean**

TECHNICAL DATA

Fields of application	Residential, commercial, industrial buildings and storage facilities. Applicable for painting concrete, lime- or lime-and-cement treated plaster surfaces, silicate bricks, as well as for surfaces formerly painted with lime-, lime-and-cement, cement or silicate paint. Can be used also for interior mineral surfaces
Gloss	Full matt.
Coverage (per coat)	3- 5 m²/l. Coverage depends on painting method and roughness of the surface painted.
Tinting	The paint can be used white (SA base) or tinted according to *Tikkurila Facade* and *Hansa Silicate* colour cards (base SA and SC base). Tinted products cannot be exchanged.
Base paints	SA and SC base.
Application method	To be applied with a painting brush, roller or high pressure airbrush. The high-pressure airbrush nozzle shall be 0,018" - 0,023" or 0,460 - 0,580 mm.
Drying time	(at +23 °C, relative air humidity (RH) 50%) 12 hours – recoatable.
Cleaning of painting tools, thinner	Tools can be cleaned with water. Paint can be thinned with Hansa *Silicate Primer*, use instructions below.
Storage	Protect the product from frost!
Storage time	In tightly closed original container 2 years from production date (stated on can).
Solid content	About. 50% v/v.
Density	1,3- 1,4 kg/l, depending on the base paint and shade (ISO 2811).
Water vapour diffusion	$S_{d, H2O} \leq 0{,}14$м, when applied according to manufacturer's instructions (ISO 7783-2).
Carbon dioxide diffusion resistance	$S_{d, CO2} < 1$m, when applied according to manufacturer's instructions.
Adhesion	0,8 N/mm2 , when applied according to manufacturer's instructions (ISO 4624).
Packaging	2,7 L; 9,0 L.

INSTRUCTIONS FOR USE

PREPARATION

Unpainted surfaces:

New concrete surfaces can be painted only after first heating season and newly plaster-treated surfaces after 1-2 months hardening period. Clean the surface from dust, dirt, salts and other exfoliating or fractured particles by pressure wash or with steel brush. Wash surfaces contaminated with algae or mould with *Tikkurila Homeenpoisto* according to manufacturer's instructions. Treat uneven surface and cracks with cement mortar or lime mortar appropriate by composition. Smaller cracks can be filled with mixture of sand with *Hansa Silicate*. To improve adhesion and to clean cast concrete from cement glue, treat the glass-like glossy layer with a sandblaster or steel brush prior to priming.

Previously painted surfaces:

Clean the surface from exfoliated, fractured, chalky paints and loose decorative coatings with a sandblaster, steel brush or pressure wash. All organic paint must be totally removed by means of sandblaster, steel brush or pressure wash. Open the cracks in concrete, clean steel reinforcement from rust and treat them with anticorrosive paint. All the surface defects have to be fixed in compliance with the specifications for the construction material. Treat uneven surfaces and cracks with cement mortar or lime mortar appropriate by composition. Smaller cracks can be filled with mixture of sand with *Hansa Silicate*. Treat surfaces contaminated with algae or mould with water solution of *Tikkurila Homeenpoisto* according to manufacturer's instructions.

PRIMING

Porous absorbent surfaces to be primed with mixture of primer *Hansa Silicate Primer* and water (mixing ratio 1:1), using wet-on-wet method, i.e. 2-3 layers of priming solution to be applied to the surface within a short span of time. Not earlier that after 12 h prime the surfaces with mixture of *Hansa Silicate Primer* and *Hansa Silicate* (mixing ratio 1:2). Moderately absorbent surfaces to be primed with priming paint *Hansa Silicate Primer*. Not earlier that after 12 h prime the surfaces with mixture of *Hansa Silicate Primer* and *Hansa Silicate* (mixing ratio 1:2). Hard and compact surfaces to be primed with mixture of *Hansa Silicate Primer* and *Hansa Silicate* (mixing ratio 1:2).

PAINTING CONDITIONS

Surface should be clean and dry, air temperature between +5°C and +28°C, relative air humidity below 80%. Avoid high temperatures and direct sunlight during painting.

PAINTING

Thoroughly mix paint before painting. Thin with *Hansa Silicate Primer* if required up to 10% of volume. To obtain uniform shade, mix sufficient amount of tinted paint from different cans prior painting. Allow priming layer to cure at least 12 hours. Apply 1 or 2 layers of *Hansa Silicate* with brush, roller or airbrush. **NB!** Prior to painting, cover the surfaces which are not subject to painting (e.g. window panes, natural stone or metal, plants etc).

CLEANING OF TOOLS

Clean painting tools from liquid paint residue, wash with water

CARE AND HANDLING OF SURFACE

The surfaces can be cleaned in 1 month after painting. Water spray is most suitable for cleaning. It should be taken into account that wet cleaning of the surface may change its colour, therefore cleaning area should be determined. Remove lose particles and dirt prior washing. To remove mould or algae apply *Tikkurila Homeenpoisto* and rinse well. Always overcoat the surface after mould removal.

ENVIRONMENTAL, SAFETY AND WASTE REGULATORY

 Irritant

Contains: potassium silicate. Risk of serious damage to eyes. Keep out of the reach of children. Do not breathe spray. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. If swallowed, seek medical advice immediately and show this container or label. Use only in well ventilated areas.

Do not discharge the product into sewerage systems, watercourse, nor pour it onto the ground.

Dry and empty containers should be discarded in compliance with the local regulations. EU (VOC) limit value (subgroup A/c) is 40 g/l. Maximum content of VOC in readymade product 40 g/l.

TRANSPORTATION

Protect from frost!

ADDITIONAL PRODUCT INFORMATION

www.vivacolor.ee