

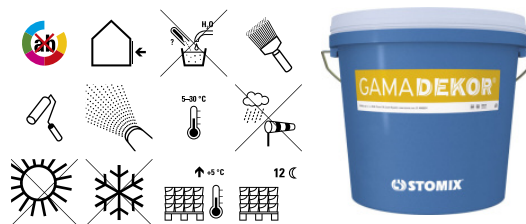
Technological instruction No. 04-003

GAMADEKOR® SIL

Catalogue No.: 600500

GAMADEKOR® SIL is water soluble silicon-resin colour.

ČSN EN 9001
 ČSN EN 14001
ISO 9001
ISO 14001



CHARACTERISTICS

Application	It is used for final surface treatment of renders in exterior and interior, of cement-fibre boards, polymer-cement backfillings and a levelling paint of external thermal insulation composite systems (ETICS) of STX.THERM® line.
Characteristics	On surfaces of the mentioned materials creates a dim coating with thickness to 0.2 mm. The hardened film is flexible for water vapours and shows increased permeability for water vapours. Further it shows higher resistance to dust deposition, reduced wettability and significant pearly effect. The created surface has better self-cleaning ability.
Appearance	dim
Specification	The used biocide product is made using a unique patented Advanced Micro Matrix Technology. It involves a physical bonding of active substances to inert polymer and subsequent slow release with respect to time for the period of several years. Through this action, the growth of algae and fungi (moulds) is prevented and slowed down. If biocide effects of the active substances are maintained, the negative effects on the human health and the environment are minimised.

TECHNICAL DATA

Criterion	Standard/test regulation	Value/Unit	Notes
Density	EN ISO 2811	1.6 g/cm ³	
Equivalent diffusion thickness s_d	EN ISO 7783-2	0.04 m	V ₁ high for a thickness of 0.2 mm
Water vapour diffusion resistance factor μ	EN ISO 7783-2	2000	
Water permeability rate w	EN 1062-1	0.05 kg/m ² .h ^{0.5}	W ₃ low
Dry layer thickness	EN 1062-1	0.2 mm	
Grain size	EN 1062-1	0.1 mm	S ₂ middle

The specified characteristic parameters are average values. Due to the use of natural raw materials in our products, the specified values may insignificantly differ in individual deliveries. This, however, does not compromise suitability and reliability of our products.

SUBSTRATE

Requirements	The base must be solid, dry, consistent, dust and grease free. It can be moist but not wet. Renders and concrete must be of good quality and matured (28 days at least, surface for ETICS levelling then 24 hours at least). Damaged places must be removed and repaired, eventually reground. Also previous lime or glue paints must be removed by regrating. Any bases with supposed humidity increase must be frostproof. It is not recommended to apply GAMADEKOR® SIL onto bases with which it is not possible to demonstrate content of silicate parts (for example lime-cement renders with prevalent lime filler or low part of cement).
Preparation of the material	Coherent, repaired and smoothed bases are impregnated by water solution of penetration coating, eventually they are coated by the HC-5 primer. For absorbent and very absorbent bases the EH coating can be used, for gently absorbent bases the NL coating can be used.

The colour is possible to be applied after complete drying of penetration or base paint depending on the climatic conditions - 4 hours minimally, at temperatures lower than +10 °C and high relative humidity even 24 hours.

APPLICATION

Climatic conditions during application	The work may not be done under rain, fog, strong wind nor to directly sunlit surfaces. Range of working temperatures is from +5 °C to +30 °C (both, the air and the base too). The applied material must be secured against frost and rain up to complete drying (at temperatures under +10 °C and high relative humidity it takes even 72 hours).
Preparation of the material	Before use the colour is mixed in the packaging, or a suitable tank or in a clean mixer. It is applied in supplied consistency, eventually it is thinned by adding of max. 5 % of drinking water. However, keeping stabile consistency of the colour for complete construction or particular sections (one wall etc.) is essential. Thinning is not recommended for the last layer of paint. Mixing of any other additives is prohibited. Any contact of colour with corroding materials must be excluded.
Consumption	(kg/m ²) GAMADEKOR® SIL: 0.4 - 0.6 (2 coats)
Spreading capacity	50 m ² / bucket (24 kg) – 2 layers
Composition of surface treatment	Penetration varnish: Depending on the kind and condition of the foundation Intermediate coat: GAMADEKOR® SIL Final surface treatment: GAMADEKOR® SIL
Application	GAMADEKOR® SIL is applied onto a prepared base by brush, fine moltopren or felt roll or by pressure applicator without air. It is recommended to realise the application minimally in two paints or sprays. The spray is realised by common cross manner in order to reach a balanced engraining of the base. At spraying of base with membered surface it is recommended to apply the colour in two or more layers in order to reach even structure and overall covering. The second spraying or paint can be done after total drying of the previous layer, i.e. after 4 to 6 hours (this period must be modified according to the climatic conditions - at temperatures under +10 °C and high relative humidity the material is totally dry after even 24 hours). For complete areas material of the same batch should be used. If more batches are to be processed they must be mixed together and uniformly thinned. To maintain stabile consistency of colour for compact surfaces is essential. Complete areas must be done at once with sufficient and trained staff. If it is not possible, the area should be conveniently divided with taking into account possible deviations. Adjacent surfaces (windows, doors, banisters, switchgear boxes etc) must be protected against pollution by a suitable foil, tapes etc. Any polluted area must be cleaned in time because removal of dried material is difficult.
Drying, curing, revision time	The drying time depends on the temperature, strength of wind and relative humidity. Adverse conditions slow the drying process down. On principle, protective measures must be taken (e.g. protection against rain, protection against sun by shading) on the worked or just finished surface under adverse conditions. At an air temperature of +20 °C and relative air humidity re-work is possible not earlier than after 6 hours.
Cleaning tools	Immediately after use clean with water.
Instructions, recommendations, specialties, other	When used for airless paint spraying, it is necessary to use a sufficiently proportioned suction branch and check pipe bends of the device, since this colour might cause problems during the conveyance of material. Recommended size of a filter screen is > 250 µm.

DELIVERY

Colour hue	white, tintable
	<p>Stability of the colour tone:</p> <p>The surface may change over time when exposed to natural weather conditions, humidity, UV light, or deposits. This may result in a colour change. In fact, it is a dynamic process that is influenced by the weather conditions and exposure of the surface. For intensive and/or very dark shades, it is suggested to improve colour stability by applying an additional coat.</p> <p>Breakage of the filling:</p> <p>When a coat surface is exposed to mechanical stress, there may be changes to a colour shade on the affected areas, particularly with dark, intensive colour shades. Such areas become slightly lighter, due to damage of the filling or pigment abrasion. This, however, does not affect quality and functionality of the product.</p> <p>Colour shade accuracy:</p>

On the basis of chemical and/or physical binding processes and in varying climatic and exposure conditions, no guarantee of accuracy and evenness of colour shade can be given, particularly with:

- irregular absorption of the foundation
- irregular humidity of the foundation
- partially considerably different alkalinity of the substances contained in the foundation
- direct exposure to sunlight with strongly limited shade formation on a freshly applied area

Emulsifier washout:

Based on the conditions slowing down the drying process, surface phenomena (leaches) may appear in the initial phase in not dried coats due to the effect of condensation, vapour, splashing water or rain, because of the auxiliary, water-soluble substances contained in them. Depending on the colour shade intensity, the described effect may differ, which, however, is not material quality deterioration. Such effects usually spontaneously disappear with further exposure to weather conditions.

Tintable	full colour scale except tint of groups a,b
Potential special setting	A preserving agent and agent protecting against fungi and algae are added already during production. A preventive and prolonged effect is achieved. A permanent protection against algae and fungi can't be guaranteed.
Packing	The product is packed in 5 kg, 14 kg or 24 kg plastic portable buckets.

STORAGE

Storage	When storing in the tightly closed original packaging, the warranty period is 12 months since the production date. Protect the product against frost and do not store it at sunlit places.
Storage period	12 months since the production date.
Ecology	Liquidation of not used remains is done by watering and depositing of the hardened inert substance as a building waste. Used packaging is liquidated as composite waste according to the valid legislation.

IDENTIFICATION

Product group	facade paint
Composition	polymer binding substances, silicone resin, pigments, fillers, modifying additives, biocide agents in the form of capsules (protection against moulds, fungi and algae)
Safety	H412 Harmful to water organisms with long-term effects. P273 Avoid release into the environment. Hazard determining components: Contains Terbutryne. Additional information: Contains 2-octyl-2H-isothiazol-3-one. May produce an allergic reaction. VOC: Product category A, product subcategories a. The maximum permissible limit VOC content in the product ready to use is 30 g/l mass. Maximum VOC content in the product ready to use is 3.55 g/l mass.

SPECIAL INFORMATION

Regarding orders, transport, handling and storing, general sales conditions are applicable. Usage of the product is described in relevant technological sheet. Respect safety sheet instructions. The prescription is available at authorized dealers and on the address **www.stomix.com**.

The information provided takes in account the current status of the technology. We give general instructions based on our experience with application and results of the material tests. However, the information provided can't take into account the local conditions during the application, therefore, it can't be legally binding. In case of doubts or need to solve specific technical problems, please contact us.



WWW link