

Technical Data Sheet

SILIKAT BIO IN

Silicate interior paint for natural mineral surfaces



Scope of application

High-quality, preservative-free interior paint based on silicate according to DIN 18 363, paragraph 2.4.1 for wall and ceiling surfaces with a natural look. High proportion of mineral raw materials and natural alkalinity temporarily reduce the risk of mould forming on the surface.

Particularly suitable in all highly sensitive living and working areas since it is free of preservatives. Can be used on all common substrates such as mineral plasters, concrete, sand-lime bricks and exposed brickwork, clay plasters, lime plasters, wood-chip boards, structural and glass fabrics. KRAUTOL wall coverings, gypsum plasters, gypsum plasterboards, gypsum building boards and stable satin dispersion coatings can also be coated after appropriate pretreatment.

Product features

- White
- Maintains the diffusivity and moisture exchange of the substrate
- In terms of room air hygiene, it is harmless
- Capable of absorption
- Can be diluted with water
- Environmentally friendly, low odour
- Free of solvent and plasticizer
- High covering capacity
- Highly diffusible
- Easily processed
- Alkaline: pH value approx. 11, therefore temporarily resistant to mould
- Suitable for allergy subjects

Characteristic data according to DIN EN 13 300:

| | | |
|--------------------|---|------------------------------|
| Opacity class | 1 | at 6 m ² /l yield |
| Wet abrasion class | 2 | |

Values according to DIN EN 1062:

| | | |
|----------|---------|----|
| sd-Value | < 0.02m | V1 |
|----------|---------|----|

V1 = high water vapour diffusion

Classification of scope of application

| Exterior 1 | Exterior 2 | Interior 1 | Interior 2 | Interior 3 |
|------------|------------|------------|------------|------------|
| - | - | + | + | - |

(-) not suitable / (o) partially suitable / (+) suitable

Classification according to climatic conditions of the scope of application Please note the technical information "Classification of areas of application".

Gloss level

Dull matt (according to DIN 13 300)

Density

approx. 1.55 g/cm³

Material base

Silicate-based coating material with organic additives according to DIN 18 363, paragraph 2.4.1.

Tint

Due to tint, deviations are possible in technical characteristics.

Processing type

Brushing, rolling or airless spraying.

Airless application:

| | |
|----------------|---------------|
| Nozzle | 0.025" |
| Spray pressure | 150 - 180 bar |
| Spray angle | 50° |

Adjust container to spray consistency with water.

Stir well and sieve.

The right tool

| Property substrate [mm] | Pile height recommendation for Roll processing [mm] |
|------------------------------------|---|
| Attains the finest roll structures | Apply paint with a short or medium-pile paint roller such as KRAUTOL inner roller (15mm), then re-roll in one direction with a special re-roller such as Rota Tex 15. |
| Smooth | Use suitable short or medium pile paint rollers, such as KRAUTOL inner roller (15mm) |
| Slightly structured 1 -3 | 11-18 e.g. KRAUTOL inner roller (15mm) |
| Coarsely structured > 3 | 18-21 e.g. KRAUTOL padded facade roller (18mm) |
| Very coarsely structured ≥ 5 | 18-21 e.g. KRAUTOL padded facade roller (18mm) |

Substrate

Substrates must be free of dirt, separating substances and be dry. Observe VOB Part C, DIN 18 363, paragraph 3.

Plasters of mortar groups PI, PII and PIII as well as old plasters from mortar group PI:

Coat solid, normally absorbent substrates without pretreatment. Apply primer coat to coarsely porous, sandy, absorbent plaster. After the plastering surfaces have dried out, fluate them with a commercially available fluate and wash them with water.

Gypsum and finished plasters of mortar group P IV:

Apply a primer coat of primer paint to solid plasters. Sand down, remove dust and prime any sinter skin that may be present. After drying thoroughly, apply an intermediate coat.

Clay plaster:

Clay plasters must be thoroughly dry. Before coating, prime with diluted Fixactive. Allow primer to dry for 24 hours.

Plasterboard:

For gypsum cardboard panels with water-soluble, discolouring ingredients, we recommend special products for a primer or final coat to prevent penetrating substances - see the primer coat paint system table. Please note BFS Data Sheet No. 12.

Sand off putty ridges. Apply primer to soft and sanded plaster putty areas with commercially available solvent-based plaster. Please note BFS Data Sheet No. 12.

Wood-chip wallpapers and fabrics:

Remove wallpaper and fabrics that do not adhere firmly and wash off paste and waste residue. Then prepare further depending on the substrate. Coat uncoated wood-chip wallpaper without pretreatment. For relief and embossed wallpaper made of paper, test coat must be carried out

Concrete:

Remove any release agent residues as well as flouring and sanding substances. Apply a primer coat.

Stable lime or silicate paint coatings:

Apply primer coat to highly absorbent surfaces.

Stable matt emulsion paints and synthetic resin plaster coatings:

Apply primer coat. Completely remove unstable paint and emulsion paint or synthetic resin plaster coatings. Completely and mechanically remove non-stable mineral paint coatings.

Surfaces affected by mould:

Thoroughly remove mould and fungus by wet cleaning or using appropriate products. Legal and official regulations (e.g. the Biological Substances and Hazardous Substances Ordinance) must be observed. Wash cleaned surfaces and allow to dry thoroughly, do not wash again.

Paint system

Table of general paint system depending on the surface condition or scope of application:

Consumption

| Substrate texture | Mould infestation | Primer coat | Penetrating materials | Product | Primer alternative | Maximum dilution KRAUTOL Fixativ [%] | |
|--------------------------------------|--|--------------------------|--|-----------------|-------------------------|--------------------------------------|-------------------------|
| | | | | | | First coat / one-time coat | Intermediate final coat |
| Greatly absorbent | MUCOREX PLUS MUCOREX AP CLEANER | FIXATIVE diluted 2:1 | MULTI TRANSITION PRIMER ISODEC N X-TREM INSULATION PRIMER / SPRAY | SILICATE BIO IN | / | 5 | 5 |
| Normally absorbent | | FIXATIVE 2:1 diluted | | | / | 5 | 5 |
| Weakly absorbent | | Without, optional WP-UNI | | | MULTI-TRANSITION PRIMER | 5 | 5 |
| Non-absorbent | | WP-UNI | | | MULTI TRANSITION PRIMER | 5 | 5 |
| Determination of absorbent behaviour | Wetting test with water and visual assessment | | | | | | |
| Note | If a primer is not used, dilution up to a maximum of 5% with KRAUTOL Fixative is possible. | | | | | | |

Processing instructions

- To avoid build-up, apply coating wet-on-wet at once.
- KRAUTOL SILICATE BIO IN can be tinted mechanically from the whiteware. In order to identify any tint errors, please check the colour accuracy before processing. Only use colours from one production (batch) on contiguous surfaces. When using low-coverage colours such as red, orange or yellow, we recommend a primer coat with WP-UNI or with Multi-transition primer in the appropriate primer system colour. The corresponding primer system colours are displayed using the tint technology. Possibly, a second topcoat may be necessary.
- Covering measures: Carefully cover the surroundings of the surfaces to be coated, especially glass, ceramics, paintwork, clinker, natural stone, metal and natural or glazed wood. Wash off paint splashes immediately with clean water
- Lower temperature limit for processing and drying +8 °C for substrate and circulating air.
- On smooth substrates, we recommend substrate preparation to a quality level of at least Q3 in accordance with BVG data sheet No. 2 “Filling plasterboard surface qualities” for an even surface result.
- Signs of repairs on the surface depend on many factors and are therefore unavoidable (BFS Data Sheet 25).

Approx. 170 ml/m² per operation on a smooth surface. Correspondingly more on rough surfaces. Please determine the exact consumption using a test coating.

Drying

At +20 °C and 65% relative humidity, surface is dry after approx. 4 - 6 hours and can be painted over. Dried and resilient after approx. 3 days. At lower temperatures and higher humidity, these durations are longer.

Cleaning the tools

Clean with water immediately after use.

Storage

Store cool but frost-free.

Please note

Not a dangerous substance or mixture. Keep out of reach of children. Ensure thorough ventilation during processing and drying. Avoid eating, drinking and smoking while using the product. In case of contact with eyes or skin, rinse immediately with water. Do not allow to enter drains, waterways or soil. Clean the tools immediately after use with soap and water. Do not inhale spray mist. Use combination filter A2/P2. coating material is highly alkaline. Skin and eyes must therefore be protected from paint splashes; carefully cover the area around the painted surfaces. Wash off splashes on paint, glass, ceramics, metal and

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natural stones immediately. Safety data sheet available on request.

Allergy hotline

+ 49 (0) 800/1895000 (free from German landlines)

GISCODE for coating materials

BSW10

Product code for paints and varnishes (obsolete)

M-SK01

VOC content

EU limit value for the VOC content of this product (Cat. A/a): 30 g/l (2010). This product contains <1 g/l VOC.

Disposal

Only completely empty containers may be recycled. Dispose of liquid material residues at the collection point for waste paints/varnishes, dried material residues as construction and demolition waste or as municipal or household waste.

Container sizes

| | 5 L | 10 L | 12.5 L |
|-----------------------|-----|------|--------|
| White (can be tinted) | • | • | • |

| | | | |
|---------------------------|--|--|---|
| Factory tint (also in B3) | | | • |
|---------------------------|--|--|---|

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