

SC-PROOF

Transparent surface reinforcing lithium-based silicate solution

Product Description

SC-Proof is based on silicate chemistry where silicic acid reacts with the concrete's free calcium and forms calcium silicate. The pores are filled and reinforces the upper surface of the concrete. Lowers the pH and reduces the relative humidity on the treated surface. Using silicate for concrete hardening is an old technique. But to achieve optimal strength at the concrete and to avoid discoloration, the composition of the product is important. Leaves no film on the surface, but penetrates / reacts with the concrete. Fully diffusion open. Emits no emissions, not combustible.

Usage

SC-Proof increases the concrete's resistance to abrasion, acid attack and spillage from grease and oil. As well as minimizing the impact of black rubber wheels.

- SC-Proof is intended to be used as old concrete for impregnation and hardening of the surface.
- SC-Proof is used during the grinding process to achieve gloss and hardness / hardening required when polishing / grinding different concrete surfaces.
- SC-Proof also works as a dust bond for layers and industrial floors, parking-decks, garage etc.

Characteristics/advantages

- Ready to use
- Easy to apply
- Improves durability and increases abrasion resistance compared to untreated surfaces
- Reduced dust from mortar or concrete floor
- Leaves no film on the surface (retains the concrete feel)
- Easier to keep clean
- Improves final results when grinding / polishing different concrete surfaces
- Good penetration

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- Solvent free
- Colorless and odorless

Environmental information

Special features

- Does not release any emissions
- Not flammable

Productdata

Apperande/colour	Clear liquid
Storage	Dry and cool storage with temperature between +5°C och +30°C. Protect from frost..
Sustainability	12 months from manufacturing date in un-open packaging
Packing	10 kg och 25 kg plastic can

Technical Data

Chemical base	lithium-based silicate solution
Density (vid +20°C)	Aprox. 1,14 kg/lit
Chemical Restistance	The product is not intended to be exposed to other chemicals.

System Design

Curing agent / impregnation 1-2 layers

Performance

Generally

Mixing ration The product is delivered ready for use

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Consumption

0.05-0.15 kg / m² / lower. Depending on the porosity of the surface, the denser / harder the less. These numbers are theoretical but provide guidance for achieving a good result. Make a test to ensure application / application technology to achieve the desired results or expected appearance. Keep in mind that a concrete surface often changes a little in quality, which means that the amount of time may vary on the same surface.

Surface

Only used on concrete surfaces. Is etching on glass etc. (see application reservation).

Hardened / old concrete:

The surfaces must be undamaged, textured, clean, free from frost, cement skin, surface water, oils, greases, coatings, any loose particles and other possible surface contaminants.

If in doubt, apply to a test area first.

For hardening by grinding / polishing use recommended methods from your machine supplier, for which slip / polishing step you are going to treat the concrete surface.

Preparering the Surface

The substrate must be prepared by suitable mechanical preparation techniques such as grinding, high pressure washing etc. depending on the condition of the surface. In all cases, all dust and loose materials as well as oil and grease must be removed completely from all surfaces before application. There may be moisture on the surface, but not standing water.

Application

Application Conditions / Tools / Method

The concrete surface must be clean and free from standing water, dust, dirt, paint and oil, and exceed + 5 ° C.

For dust bonding of porous surfaces:

Apply a cover film with low pressure sprayer - all. pour out, exquisite with water can and spread with soft brush / brush or preferably with "microfiber" mop. NOTE! Excess puddles are eliminated. When the surface is dried, treatment should be repeated. Allow to cure for a few hours, walkable within about 2-4 hours. However, wait about 2 days before standing water is allowed.

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For dust bonding of hard glossy surfaces:

Apply a cover film with low pressure spray gun, distributed immediately after spraying with microfiber mop. Important to try out the technique before starting to achieve the desired result. If you get too much (puddles) and the substrate cannot absorb applied amount, crystallization can occur (white spots, pattern on the surface). Therefore, it is better to treat the floor 2 times but with a smaller amount of time. Remember to cover glass / alu / clinker when applying - see application restrictions. Then spray a piece away and distribute the micromop. Rinse immediately after contact.

Do not pour any liquid that has been used in the original container.

Surfacetemperature	+7°C min, +35°C max.
Ambient temperature	+7°C min, +35°C max.
Surface moisture	Can be applied to moist concrete without any waterproofing
Relative humidity	100% max.
Dew point	Look out for condensation!

The substrate and floors that are not cured must be at least 3 ° C above the dew point to reduce the risk of condensation or bleeding on the floor surface.

Cleaning of tools

Clean all tools and all application equipment with lukewarm water immediately after use. Hardened material can only be removed mechanically.

Application Instructions / Limitations

- Do not use syringes that have been used to spray silicones or release agents.
- Do not mix different Scanmaskin preparations or other curing membranes.
- Make sure the sprayer is cleaned properly before use.
- SC-Proof will increase abrasion resistance compared with untreated concrete or coatings of the same type.
- Immediately remove any spilled material from glass surfaces, aluminum surfaces or high-gloss surfaces with water to avoid surface etching.
- Do not use on surfaces previously treated with curing agents / membranes, these layers must be removed for the silicate to react and work with the concrete.

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- To get a homogeneous result, do not leave any dry spots or "puddles" when applied material. Finish further where needed.
- The results of the soil come and vary depending on age, cement content, moisture content, porosity and how far the product has penetrated the substrate.
- SC-Proof does not outweigh poor low-level substrates. It is not intended for lightweight or extreme porous substrates or with worn (excessive exposure) surfaces.
- SC-Proof does not hide serious spots or excessive wear.
- It creates an invisible film that can later give a slightly darker shade creating no structure without the basis determines the appearance.

Curing

Curing times

SC-Proof reacts with the concrete's free calcium particles, so does not dry in the same way as a paint or membrane hardener based on polymers.

In case of dust bonding / surface strengthening, treatment should be repeated when the surface is walkable. Let cure for a few hours, walkable within about 2-4 hours.

Cleaning / Maintenance

Methods

Since it is a silicate-based product, we recommend that you use cleaning / polishing methods designed for the purpose of achieving best results ex: Dancer pads

Core Values

All technical data given in this product data sheet are based on laboratory tests.

Actual measurement data may vary depending on circumstances beyond our control.

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Health & Environment

Health & Environment See separate safety data sheet.

Legal

The information, and in particular, the recommendations for application and end-use of the Scan Machine

The products are given in good faith based on Scanmaskin's current knowledge and experience of the products when stored, handled and used properly under normal conditions. In practice, the differences in material, substrate and current location vary in such a way as to make no warranty as to usability or fitness for a particular purpose can be left. With this in mind, any legal liability of what kind it must not be deduced from this information or from any written recommendation or otherwise regarding the product submitted advice. Consideration must also be given to third parties' ownership and use other possible rights. All orders are accepted on the condition that Scanmaskin's current sales and delivery terms are valid. The user should always use the latest version of the Technical data sheet of the current product, which can be obtained on request

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