

Schützen™ SC

Technical Data



Aqueous formulation based on silane chemistry for stay-clean treatment of mineral substrates.

Description

A Yellowish, slightly turbid liquid, which is Water based and free of volatile organic compounds (VOC). Schützen™ SC has a flash point of >90°C

Intended Use

- Aqueous silane-based treatment intended to render porous mineral substrates hydro- and oleophobic, making them easy to clean
- Stains caused by common liquid (coffee, coke, oils and dark liquids) easily removable
- Treated facades remain clean longer and are less susceptible to the growth of microorganisms such as mold and algae
- Treated facades stay dry
- High reactivity and are alkaline resistant
- Invisible and fully water vapour permeable treatment
- Formulated to avoid sticky silicone films
- Very good beading effects with water and oily substances on porous mineral substrates
- Supplied ready-to-use

Application

Schützen™ SC is suited for rendering porous, mineral substrates easy-to-clean. The amount to be applied is dependent on the porosity of the substrate. The durability of the easy-to-clean effect differs in relation to the kind of mineral substrate and amount of applied material. The durability lasts up to ten years. It is necessary to do a test patch before each application to determine the exact consumption and to check the compatibility with the substrate. As a rule a rule of thumb Schützen™ SC has consumption rates of 50-280 g/m².

Suitable Substrates	Consumption Rate	Application
Concrete	60-100 g/m ²	HVLP, airless spraying
Clinker Masonry	approx. 80 g/m ²	HVLP, airless spraying
Red Brick	90-250 g/m ²	HVLP, airless spraying, immersion
Sandstone Masonry	70-200 g/m ²	HVLP, airless spraying
Sand Limestone	70-200 g/m ²	HVLP, airless spraying
Marble and Granite	30-50 g/m ²	Polish

Note: Excellent slip resistance report by opus on masonry pavers.

The facade to be treated must be clean and the surface dry. Dirt, grime, efflorescence, algae and moss must be removed. Water blasting or steam cleaners are suitable. Water absorbed during cleaning must be allowed to dry so that the surface is dry before application begins. Imperfections such as cracks, cracked joints or defective seams must be repaired using appropriate methods. Mortar used for repairs must be fully cured and surface dry.

During application the temperature of the air and the substrate should be between +10°C and +40°C. Schützen™ SC should not be applied during strong wind or when rain is imminent. A minimum drying time of 24 hours should be allowed after applying Schützen™ SC.

In the case that a water repellent agent or a corrosion inhibitor have been applied to the substrate, it is recommended to wait at least 5 days before Schützen™ SC is applied.

The exact consumption rate is dependent on the porosity of the substrate and earlier applied water repellent impregnations. Porous, absorbing substrates may need more than 300ml of the solution per m². The exact consumption rate can be ascertain by a small test patch. In the case of polished, non-absorbent substrates. It is recommended to polish Schützen™ SC on the surface using a cloth or microfiber glove. Consumption rates on polished surfaces are considerable less than on coarse surfaces.

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Application Continued

Schützen™ SC is applied using HVLP (High Volume Low Pressure) equipment, backpack sprayer and dry block brush or airless spray (low pressure, so-called "flooding" method) is possible if the substrate is sufficiently absorbent. The ready-to-use solutions are best applied starting from the bottom and going up the wall. This avoids pre-treating the substrate with run-off from above. Avoid using dirty application equipment which can contaminate the product. The easy-to-clean effect may be in many cases (especially on very coarse and very porous substrates) enhanced by additional treatments.

The amount of product required for the second and all subsequent treatments is considerably less. Droplets should be evenly distributed using a brush or roller. In most cases the hydro- and oleophobic effect forms within just a few minutes (especially in warm, dry weather). Some substrates, such as limestone, are less reactive. In such cases the effectiveness may take days to fully develop. The application should be continuous and uninterrupted so that no overlapping occurs. The aqueous solutions of Schützen™ SC cannot penetrate a previously treated section. Resulting droplets can cause mottling if not evenly distributed with a dry brush or removed.

Adjoining materials such as windows, glass, painted surface, surfaces to be painted, plants and landscaping should be protected with plastic from overspray. In case of accidental contamination the resulting film can be removed with standard cleaners, silicone removers, mineral spirits or solvents if applied immediately before it hardens. Schützen™ SC reacts with the interfaces in pores and capillaries of the mineral surface and forms invisible, easy-to-clean protection. To determine the exact amount to be applied and to check whether previous or following treatments are compatible with the Schützen™ SC treatment it is recommended to do a small test patch first.

Product Safety

Before application read the Material Safety Data Sheet thoroughly for safety and toxicological data as well as for information on proper transportation, storage and use. The Material Safety Data Sheet is available upon request from Stoanz Ltd.

Packaging, Storage and Handling

Schützen™ SC is supplied in ready-to-use 10 and 20 Litre containers. Schützen™ SC is not resistant to frost and should be stored at temperatures between +3°C and +40°C. Schützen™ SC has a shelf life of 12 months if stored in originally sealed containers.