

Protect Pro 200

Hydrophobic oleophobic coating material



Product description:

Protect Pro 200 is a hydrophobic and oleophobic impregnation-based stone (adsorbent) and concrete. Protect Pro 200 is a surface impregnation which generates a thin film that decreases the adhesion of dirt and deposits and lets water and other liquids easily rinse off. The treated surface shows an easy-to-clean-effect, i.e. the tendency of soiling is reduced, and the surface can be cleaned with lower cleaning expenses and effort.

Fields of application:

Stone (sandstone, limestone, etc), concrete, wood, paper, textile (not applicable for white textiles)

Product features:

- Treated porous, mineral substrates show very good water and oil repellency
- Treated surfaces remain clean for longer times and are more easily cleaned (common liquids like coffee, coke, oils and dark liquids are easily removed)
- Weakens the adhesion of chewing gum or posters to e.g. facades
- Slows down the growth of microorganisms such as mold and algae
- Helps avoid unsightly dark water streaks
- Is highly reactive and resistant against alkali
- Generates water-vapor-permeable, colorless impregnations
- No formation of sticky silicone films
- Is suited for the treatment of water repellent substrates

Product data:

Color:

Transparent, yellowish liquid

Delivery form:

1 pack system

Shelf life:

12 months (storage temperature between 10°C and 25°C, protect from direct sunbeams and frost, keep containers tightly closed).

Technical data:

Type of binder:	waterborne organofunctional silane system
Solid content:	Approx. 1,5 % by weight
Density:	approx. 1,0 g/L
Consumption:	The needed consumption depends on the roughness of the surface (stone/concrete) and is about 50 - 500 g/m ² .

Processing:

Surface treatment: Based on the surface to be coated. In any case the surface has to be free of dirt, dust and grease.

Application:

Cleaning

The substrate has to be dry, dust-free, oil- and grease-free. The target should have to be cleaned thoroughly. We recommend neutral cleaners for example by using high-pressure cleaner.

Coating

During work please wear goggles and gloves for safety. Splashes on skin should be rinsed with water and surfactant thoroughly. Please check the compatibility on sensitive surfaces. Ensure that the work place is well ventilated.

Ambient conditions: at least. +5°, max. 80°C

The facade to be treated must be clean and the surface dry. Dirt, grime, efflorescence, algae and moss must be removed. High pressure or water vapour cleaning is 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.

The application is recommended if air and substrate temperatures are between 5 °C and 40 °C.

Protect Pro 200 should not be applied during rain or strong wind. The recommended application method for Protect Pro 200 is with HVLP (High Volume Low Pressure) equipment. The ready-to-use solution is best applied starting from the bottom and going up the wall.

This avoids pretreating the substrate with run-off from above. Avoid using dirty application equipment, which can contaminate the product. In most cases the hydro and oleophobic effect develops within just a few minutes (especially in warm, dry weather). Some substrates such as e.g. lime sandstone are less reactive. In these cases, the effect may take some days to fully develop. The application should be continuous and uninterrupted so that no overlapping occurs. If droplets form on the surface, they should be evenly distributed using a soft brush. It should be avoided to distribute a dried film with a brush. In some cases (especially on very coarse and very porous substrates) the easy-to-clean effect of Protect Pro 200 may be enhanced by additional treatments. The amount of product required for the second and all subsequent treatments is considerably less. Several layers should only be applied using HVLP technology and resulting droplets must be rubbed in quickly using a brush or swab to distribute the liquid evenly across the surface.

In the case of polished stone (e. g. marble) simply apply Protect Pro 200 once with a cloth, microfiber glove or other suitable aid by polishing until a liquid film is no longer visible. Significantly less product is required for polished surfaces (about 30 g/m²) compared to rough ones. Non-absorbent substrates such as, for example, glass, wood, plastic and metal cannot be treated with Protect Pro 200. Glass, wood and metal are not attacked by Protect Pro 200. Neither are most plastics used in construction. Therefore, covering is normally not necessary. To make sure we recommend carrying out a test. In the worst case, product not absorbed by the substrate may react with atmospheric moisture to form a greasy, glossy silicone resin film, which can easily be removed if cleaned immediately using conventional cleaning agents, or alcohol (check for compatibility of the solvent with the surface).

On horizontal surfaces exposed to traffic (e.g. pavers) the effectiveness of Protect Pro 200 will be reduced over time due to abrasion, requiring reapplication after about 6 months to 2 years. Plants in the vicinity of the substrate to be treated should be protected against contact with Protect Pro 200.

Protect Pro 200 reacts with the interfaces in pores and capillaries of the mineral surface and forms invisible, interfacial compounds.

To determine the exact amount to be applied and to check whether previous or following treatments are compatible with the Protect Pro 200 treatment it is recommended to do a small test patch first.

Mixing ratio Ready to Use

Curing/Drying:

The drying occurs under ambient conditions for minimum 3 hours up to one day. In case of higher atmospheric humidity longer curing times are necessary. An application for a second time will increase the effect. The consumption for the second time will be much lower.

Coating thickness: 400 nm

Cleaning of tools: water

The given data is for guidance only and is not a legally guarantee. The product has the properties described above. The product information can and is only intended to provide non-binding advice.