

HydroGraff® PC Premium Cream



Technical Information

Product Characteristics

- **Innovation:** Technical **hydrophobic treatment and permanent graffiti protection** in one product
- Tested functionality by new measurement procedures and long-term stress tests in the course of a supported research project (5 years weathering simulated and 10 cleaning cycles with graffiti attacks were simulated)
- Permanent graffiti protection tested according RAL-certificate anti-graffiti (report no. 18-2335)
- Ready to use hydrophobic cream
- Not visible
- Not film-forming
- Excellent water vapor permeability
- Spreadable and sprayable
- Reduces efflorescence and surface pollution on building material
- Improves resistance to frost/deicing salt
- Alkali-resistant
- Application in one working process

Scope

- For hydrophobic treatment and graffiti protection of alkaline and cement-bounded surfaces
- For hydrophobic treatment and graffiti protection of precast concrete components and architecture concrete
- For hydrophobic treatment and graffiti protection of absorbent clinker and brick masonry

Technical Limits

Not suitable for soft types of natural stone, such as clay-bonded sandstones etc.

Please note: The beading effect, which is often associated with hydrophobic agents, is subordinated to the protection of the building material and to graffiti protection. The beading effect depends on the surface (more or less strong).

Technical Data

Ingredients:	Silane, Siloxane, Fluoracrylate-Copolymere (C2 - C6)
Active ingredients:	ca. 25%
Appearance:	White, colourless, creamy
Density:	0,87 g/cm ³
Consumption rate:	150 - 400 g/m ² depending on the absorbency of the substrate
Flashpoint:	> 80°C
Depth of penetration:	Class II: ≥ 10 mm (currently under examination)
Sd-Value:	≤ 0,05 m
Insensitivity against rain:	After 24 hours at +20°C
Working temperature:	+ 5 °C - + 25°C
Storage/Shelf life:	Cool and frost-free in closed, original containers 12 months
Water hazard:	Water hazard class 1
Packaging:	0,75 kg, 10 kg, 25 kg
Article number:	SC360

Substrate

The substrate must be clean, **dry** and free of loose particles, dust, oil etc. Remove dirt and patina with a suitable cleaning procedure.

Concrete, esp. reinforced concrete and in-situ concrete, should be impregnated at the earliest 4 weeks after production. No wet stains should be in the concrete. Depending on concrete composition and residual moisture, precast concrete parts can be impregnated earlier. This has to be tested in each individual case. Measurement of the moisture, esp. at the outer concrete surface, with an appropriate measurement method is recommended. The moisture content should not exceed 4 weight% (surface up to 20mm depth). The absorption of the impregnation depends on the characteristics of the surface. The absorption characteristic is basically determined by the pore volume and moisture content of the building material. Therefore the substrate has to be as dry as possible.

Surfaces with hydrophobing treatment can be re-impregnated with HydroGraff® PC, as far as they show a water- and/or material absorption (test areas).

Clinker and brick masonry: Construction defects (such as cracks, cracked joints, incorrect connections, rising and hygroscopic moisture as well as exposure to salt) have to be repaired before impregnation.

Processing

Cover adjacent components and materials that shall not come into contact with the product (such as glass, painted surfaces, plants etc.).

Always create test areas in order to determine the consumption rate and possible optical changes that may occur. In case too much impregnation cream is applied (depending on the absorption capacity of the surface) or there are incompatibilities regarding the concrete composition, white surface haze or other optical changes might occur.

In this case reduce the quantity of the material and test further **HydroGraff®**-products (CC Cream or FL Liquid).

The product is transparent and more or less optically visible. The initially white layer (creamy film) disappears after approx. 30 minutes. The product penetrates into the substrate surface. If white product residues remain (after an application time of 30 minutes) then use a long pile roller and apply evenly.

The complete drying of the treated surface may take several hours or days (depending on the temperature and absorbency).

HydroGraff® PC can be applied undiluted in one process step with a roller, brush or by airless spraying. When using a roller always work crosswise. When working with the spraying method use a roller after application and exposure time (especially on smooth surfaces). In case of sudden rain showers cover the already impregnated areas and stop further impregnation work.

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Working tools:

Long pile roller (lambskin roller), smooth natural bristles brush, on small areas also spatula.

Airless Method: No. 523, 50° spraying angle, hole 0,023 inches or no. 421, 40° spraying angle, hole 0,021 inches

For the cleaning of used equipment the cleaner concentrate Scheidel m.a.c.s.® Powerfluid (mixed with water, 1:10) is recommended, then rinse with clear water.

Consumption rate:

The application takes place in **one working step** – the consumption rate depends on the absorption of the surface.

Consumption rate: 150ml - 400ml/m²

The consumption rate can be significantly higher. Always create test areas. If a further working process is necessary, application must be wet in wet.

Graffiti Removal

HydroGraff PC Façade-Cream creates a permanent protection against Graffiti. It is possible to remove graffiti several times, without renewing the impregnation. The protective effect decreases naturally. There is no protective coating on the market that can provide 100% protection against all colorants used in the graffiti-scene.

For removing graffiti the product **Scheidel C6 Gel Graffiti Cleaner** is recommended. **C6 Gel** is a gel-like special product with solvents and removes typical graffiti-spray paints and fibre pens. Stir up thoroughly before use, apply with a brush and allow the product to take effect for about 20 minutes. Wash off the area with a hot water high-pressure cleaner.

Remaining shadows can be removed with **Scheidel Cracker GEL Shade Beaching Agent and Graffiti Remover**.

Graffiti-sprays based on bitumen (underbody sealant) can be removed with **Scheidel Cocopaste Bitumen- and Graffiti-Remover**.

If necessary also further products from Scheidel for graffiti removal can be applied.

Application description of the Scheidel cleaning agents: See the specific technical information.

Please note:

For psychological and technical reasons graffiti must be removed from the impregnated surface as soon as possible.

Hazard note

The recent version of the safety data sheet is available. If required, please order by e-mail: info@scheidel.com

All details in this technical information are based on practical experience. A general binding character is excluded because of the different practical preconditions. Self-tests have to be made. All earlier editions get void with the publishing of this technical information.

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