

HYDROPROTECT



Technical Data Sheet

Description:

Varnish for mineral substrates

Usage:

HYDROPROTECT is a water-soluble acrylic protective varnish that effectively protects and refines mineral surfaces. It's characterized by high resistance to water, alkaline chemicals, good abrasion resistance and dirt is easily removed from treated surfaces. HYDROPROTECT creates a protective layer against the harmful effects of the external environment and dirt, the treated surfaces have a longer service life, they maintain the same color for a long time. By using HYDROPROTECT it's possible to minimize cleaning and maintenance costs. It can be applied by a roller, brush or airless-spraying. Apply min. 2 layers. You can apply the second coat after 30 minutes by spray application, after 6 hours by brush and roller application.

Certificates, protocols:

STO - product certificate, protective coatings and coatings of mineral substrates and masonry, Technical and Testing Institute of Civil Engineering Prague, s.p.

Substrate:

Mineral substrates

Colours:

0000

Specific gravity: (SN EN ISO 2811-1)

1,00 g/cm³

Solids: (SN EN ISO 3251)

by weight 33 %

by volume 33 %

Theoretical spreading rate: (SN EN ISO 23811)

| undiluted paint | | | |
|-----------------|------------------------|---------------------------|------------------------|
| 40 µm DFT | 8,3 m ² /kg | 8,3 m ² /liter | 121,0 g/m ² |
| 80 µm DFT | 4,1 m ² /kg | 4,1 m ² /liter | 242,0 g/m ² |

To reach 40 µm DFT apply 121 µm undiluted paint. Practical spreading rate depends on application method and conditions, shape and roughness of the surface.

Drying: (SN 673052)

| | | | |
|---|-----------------------|--------------------|---------------------------|
| 120 µm WFT, temperature 23 ± 2°C, relative humidity 50 ± 5%, outflow time 60s, ISO outflow cup 6 mm | surface dry (grade 1) | to touch (grade 3) | to manipulation (grade 4) |
| | 30 minutes | 1 hour | 4 hours |

Drying and recoatability time strongly depend on wet film thickness, temperature, humidity, ventilation and paint colour. Fully load and measure the coated film after 7 days, laboratory testing after 3 weeks of drying under the above conditions.

Gloss: (SN ISO 2813)

High gloss 90 GU, angle-wise 60°, outflow time 60s, ISO outflow cup 6 mm

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Issued: 01.11.2021



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Supply viscosity:

Thixotropic liquid unmeasurable by ISO outflow cup type

Recommended dilution: (SN 673032)

| | airless | brush/roller |
|-----------|---------|--------------|
| thinner | water | water |
| by weight | 20 % | 30 % |
| by volume | 20 % | 30 % |

Sagging: (SN EN ISO 16862)

| temperature , relative humidity 50 ± 5% | |
|---|-----------------------|
| outflow time 60s, ISO outflow cup 6 mm | no sagging 200 µm WFT |

Application conditions:

The surface must be dry. The air, surface and paint temperature cannot decrease below +10°C during application and drying. Relative humidity cannot exceed 70%. The surface temperature must be at least 3°C above the dew point. The paint must be thoroughly mixed from the transport packaging before each use. The company must possess a written certificate issued by VITON s.r.o.

Surface preparation:

Mineral surfaces: The substrate must be free of dirt, greasy stains, or sanded or blasted. Subsequently, the dust is removed by sweeping or suction. The treated mineral surface can contain max. 4% residual moisture. In the case of highly stressed surfaces, it is necessary to test in advance whether the surface strength of the mineral substrate is sufficient. Observe the compatibility of old and new paints when renovating already painted surfaces. Treated products must be allowed to dry sufficiently long after application and stored in a well-ventilated area, otherwise the quality of the products may be affected.

Application method:

Airless spraying, airmix spraying, brush or roller.. For airless spraying use the nozzle orifice of 0.011" - 0.021", nozzle pressure: 120 - 180 bar, adjust the angle of application to the shape of the surface. For airmix spraying use the nozzle orifice of 1.5 - 2 mm, nozzle pressure: 3 - 4 bar. For application by brush/roller select appropriate equipment according to the paint type and viscosity.

Storage:

in the original unopened packaging at temperatures between +5°C and +25°C. CANNOT FREEZE!

Packaging in kg:

1; 5

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Notes:

DFT - dry film thickness
WFT - wet film thickness

MS - medium dry matter
HS - high dry matter

GU - Gloss Unit
KU - Krebs unit of viscosity

All information given in this technical data sheet are based on our best knowledge, laboratory test results and practical experience to the date specified below. According to the fact that the conditions of the product's use are out of our control, we can only guarantee the product quality itself. As a producer we cannot be responsible for damage arising from the use of the products without following above recommended instructions or for improper purposes. We reserve the right to change above specified information without prior notice. Always request the actual version of the product data sheet. This technical data sheet replaces all previously released. The validity of the data provided here will be terminated automatically after five years.

