

VERNIDUR® HS

2C-Fluoropolymer Paint

Brushing and rolling application

Product range Vernidur HS

	Satin matt	Satin gloss	Gloss
Plain Colors	FP41	FP31	FP11
Micaceous	FP43 *		
Metallic	FP44 *	FP34 *	FP14 *
Clear Coat	FP45	FP35	FP15

* on request

Product Description

Vernidur HS is a High Solid coating with a very high spreading rate and minimal solvents* which is based on the latest fluoropolymer technology and provides, thanks to a molecular structure comparable to Teflon® and special pigments, a protective coating with exceptionally good weather resistance and color retention, as well as resistance to scratches. This very high-quality and longlasting 2C-Fluoropolymer coating is especially appropriate for applications which have to fulfill highest demands in color and gloss retention.

* 360 – 410 g/ltr COV in-use state for most colors

Areas of Application

Single or multi-layer coating for high-quality metallic façade elements and constructions of aluminium and steel such as petrol stations, industrial and commercial buildings, shopping centers, bridges, overpasses etc. Excellent as well for all industrial OEM-coatings which have highest demands in color retention and gloss.

Application and Thinning

Vernidur HS is a single layer on aluminium and multi-coating must be used when applying Vernidur HS on ferrous metals (see "substrate"). Application by brushing and rolling.

Do not apply at temperatures below + 5 °C. The surface temperature must be at least 3 °C above dew point, in order to avoid condensation during the application.

Method of application	Thinner (approx.)	Roller	Viscosity @ DIN 4
Brushing/Rolling	5 - 15 %	short-fibre roller	45" ± 5"

Metallic and micaceous paints are not suitable for the application on façades.

Cleaning and Graffiti Removal

Thanks to the easy-to-clean properties of Vernidur HS, the result is a high degree of dirt repellence with low maintenance costs and long cleaning intervals. Most marks (such as graffiti) can be removed completely. For these purposes, we recommend the use of IFO-certified Monoclean X500 Graffiti Remover/Monoclean X510 Cleaning Agent.

Special Notes

H300 Hardener is **moisture-sensitive**. Our indications are based on normal climate 23/50. The information contained in this technical data sheet is based on general technical standards and is meant for specialists. Any changes in the recommended operating procedures or specified environmental conditions may significantly influence the results. Our guarantee covers only the quality of the material delivered. We do not accept any responsibility for the application. In case of doubt, we recommend contacting our Technical Service. Our products are under constant development. Therefore, please note date of issue of our technical data sheet and ask for the latest edition.

Safety Measures

Vernidur HS contains solvents and is combustible. Protect from heat and keep away from naked flames. Ensure that ventilation is adequate. Do not inhale vapours. The Safety Data Sheet as well as the general regulations regarding work hygiene and operational measures must be observed.

Technical Data

Binder	2C-Fluoropolymer
Gloss degree (@ measuring angle)	Satin matt: 30 +/- 10 E (@ 60 °) Satin gloss: 50 +/- 10 E (@ 60 °) Gloss: > 80 E (@ 60 °)
Colors	Plain/Micaceous/Metallic colors (RAL, NCS or from sample)
Substrate	<u>Aluminium (Outdoor):</u> Cleaning and pre-treatment according to DIN EN 12487. The support must be free of oxidation products, tinder, oil, grease or residues of release agents. <u>Old coatings:</u> After appropriate compatibility and adhesion tests. <u>Ferrous metals:</u> - blasting according to ISO 8501-1 Sa 2½ - followed by base coating with, e.g. Monopoxi Steelguard C80, Vernit C400, Bilacryl PU C180 The substrate has to be dry and free of grease and dust.
Thinner	V109 thinner for brushing/rolling
Packaging Clear Coat	Pigment: 3 / 5 kg Hardener: 0.6 / 1 kg
Packaging Plain Colors, Micaceous + Metallic	Pigment: 5 / 10 / 20 kg Hardener: 0.5 / 1 / 2 kg
Storage	Pigment 12 months, hardener 6 months in original, unopened containers stored at 20 °C.
Waste disposal	Residues and expired material must be taken to the toxic waste disposal unit, VeVa-code 08 01 11.

Components	2
Hardener	H300
Mixing ratio	Clear Coat 5 : 1 Plain colors, micaceous, metallic 10 : 1
Potlife @ 20 °C	2 hrs
Drying @ 20 °C	Dust-free after approx. 30 min. Dry to touch after approx. 3 hrs Thoroughly dry overnight
Forced drying	Full resilience guaranteed after 10 days. After ~ 30 min. flash-off 1 hr @ 80 °C

Solids content by weight	71 - 80 %
Solids content by volume	64 - 70 %
Density (20 °C)	Plain color 1.2 - 1.5 g/cm3 Clear coat 1.1 - 1.2 g/cm3
Dry film thickness	min. 30 µm
Theoretical coverage	ca. 90 – 130 g/m²/kg @ 40 µm
Practical coverage	depending on object geometrie and application method

(replacing version 05.21)

11.21