

VERNIDUR® FP

2C-Fluoropolymer Paint

Vernidur FP-Range

	Satin matt	Satin gloss	Gloss
Plain Colors:	D471	D481	D491
Micaceous:	D473/D483		
Metallic:	D474	D484	D494

Product Description

Vernidur FP is based on the latest fluoropolymer technology which, thanks to a molecular structure comparable to Teflon® and special pigments, provides 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:

- no limitations in gloss - from matt to glossy
- no limitations in colors - uni, eloxal, metallic or special effects - unlimited possibilities to realize your ideas and wishes
- Easy-to-clean-properties, that means low maintenance costs, high dirt resistance and consequently high cleaning intervals

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 FP is a single layer on aluminium and multi-coating must be used when applying Vernidur FP on ferrous metals (see "substrate"). Application by spraying. For brushing and rolling application, we recommend the use of Vernidur FP Re-Vitaliser.

Application method	Paint type	Thinning	Nozzle
Low pressure	Plain colors / Metallic	15 - 20 % V109 depending on color	1,2 - 1,6
	Micaceous	15 - 20 % V109 depending on color	1,4 - 1,8
Airless, Airmix	Plain colors / Clear Coat	15 - 20 % V109 depending on color	narrow 10/20 medium 10/40

Cleaning and Graffiti Removal

Most marks, such as graffiti, can be removed without residue thanks to the hard, chemical-resistant surface of Vernidur FP. For these purposes, we recommend the use of IFO-certified **Monoclean X500 Graffiti Remover** and **Monoclean X510 Cleaning Agent** which can be supplied either separately or in the practical **Cleaning Box**.

Special Notes

H481 Hardener is **moisture-sensitive**.

Our indications are based on a dry film thickness of ca. 60 µm for primers and ca. 40 µm for top coats, 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 supplied. 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 request the latest issue.

Technical Data

Binder	2C-Fluoropolymer
Finish (@ measuring angle)	Satin matt 35 ± 10 U (@ 60 °) Satin gloss 65 ± 10 U (@ 60 °) Gloss 85 ± 5 U (@ 60 °)
Colors	Plain/Micaceous/Metallic colors (RAL, NCS or from sample)
Support	Aluminium (Outdoor): Chromatisation according to DIN 50939 Ferrous metals: - blasting according to ISO 8501-1 Sa 2½ - followed by base coating with, e.g. Monopoxi Steelguard, Vernit C400, Bilacryl PU C160 The support has to be dry and free of grease and dust.
Thinner	V109
Packaging Clear Coat D475, D485, D495	Pigment: 4 / 8 kg Hardener: 0.5 / 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	H481
Mixing ratio	Clear Coat 8 : 1 Plain colors, micaceous, metallic 10 : 1
Potlife @ 20 °C	3 hrs.
Drying @ 20 °C	Dust-free after approx. 30 min. Dry to touch after approx. 3 hrs. Thoroughly dry overnight Full resilience guaranteed after 10 days.
Forced drying	After ~ 30 min. flash-off 1 hr. @ 80 °C

Solids content by weight	45 - 65 %
Solids content by volume	33 - 39 %
Density (20 °C)	1.05 - 1.35 g/cm³
Dry film thickness	min. 30 µm
Theoret. consumption	ca. 140 g/m² @ 40 µm
Practical consumption	3 - 6 m²/kg (depending on object geometry and application method)

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VOC value	35 - 55 %	48.4 %	100 %

Safety Measures

Vernidur FP contains solvents and is combustible. Protect from heat and kept 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.

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