

VERNICRON® FP L451 - L458

One-coat Stoving Enamel, GSB-Quality

Product range

	Article-No.		Article-No.
Plain Colors	L451	Micaceous	L453
Metallic	L454	Clear Coat	L455
Effect Coat	L458		

Product Description

Vernicron FP L451 - L458 is an ultra-durable fluoropolymer stoving enamel which is extremely long-lasting, opening limitless possibilities for designing surfaces:

- no gloss limitations - from matt to high gloss
- no color limitations - plain colors, anodized, metallic colors or special effects
- low maintenance efforts thanks to easy-to-clean properties and high dirt repellence allowing long cleaning intervals

Vernicron FP proves an exceptional color fidelity over a long lifetime, resists degradation by UV radiation and attack by airborne pollutants, wind-driven sand abrasion and chemicals.

Areas of Application

Enamel for one or more layers on high quality metallic exterior wall elements and steel constructions demanding highest standards of color and gloss retention.

Application and Dilution

In coastal or industrial atmospheres, an open-pore anodising with subsequent pre-treatment according to DIN EN 12487 is mandatory to avoid filiform corrosion.

Thanks to the hard, hydrophobic and chemical-resistant surface, most contaminations, such as graffiti paintings, can be removed without leaving any residue.

Vernicron FP may be used on ferrous metals and with chrome-free pre-treatment only in a multi-layer system. Contact our Technical Service.

Spraying (Pressure tank, Airless, Electrostatic)

Dilution: V885 Standard thinner
V109 Slower thinner for better spray mist absorption and for ESTA

Application Method	Dilution V885/V109	Nozzle/Pressure
Pressure tank and convent. spraying	<u>L451/L454/L455/L458:</u> up to 40 % on 18 - 22" DIN 4 <u>L453:</u> up to 30 % on 38 - 42" DIN 4	1.3 - 1.6 mm 3 - 4 bar
Electrostatic Spraying	<u>L451/L454/L455/L458:</u> up to 45 % on 18 - 22" DIN 4 <u>L453:</u> up to 30 % on 38 - 42" DIN 4	1.2 - 1.6 mm
Airless / Airmix	<u>L451/L454/L455/L458:</u> up to 5 % on 65 - 75" DIN 4	narrow 211 medium 411 wide 611

Depending on the application method, color differences may occur with metallic, micaceous and effect paints. The degree of dilution and the choice of thinner as well as other system-related processing parameters can significantly influence the gloss and color shade. Spraying too wet causes unsightly effects and cloudiness. If necessary, a lighter shade can be achieved by thinning the paint during the last painting step and by atomising. To avoid differences in color shade when painting the same object, make sure that material with the same batch number is used.

Technical Data

Binder	Fluoropolymer
Gloss + Approval (DIN 67530, 60 °)	<u>GSB-No.</u> Matt 16 ± 10 U 170c Satin matt 36 ± 10 U 170d Satin gloss/gloss 61 ± 15 U 170b Special approval for multi-layer coatings
Color	RAL, NCS, Metallic, VAG or sample
Pre-treatment	Cleaning and pre-treatment according to DIN EN 12487. The substrate to be coated must be free of oxidation products, scale, oil, grease or release agent residues.
Thinner	V885, V109
Packaging	5, 20 kg disposable containers
Storage	12 months in original, unopened containers stored at 20 °C.
Waste disposal	Residues and expired material are considered as special refuse and are to be taken to the toxic waste disposal unit, VeVa-code 08 01 11.

Components	1
Min. exhaust air time	20 min.

Stoving conditions (object temperature)	30 min. to max. 60 min. @ 160 °C 10 min. to max. 30 min. @ 180 °C
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Solids content	By wgt: 54 % } By vol: 45 % } RAL 9010 1.2 g/cm ³ }
Density (20 °C)	
Dry film thickness	35 - 60 µm
Theoretical consumption	approx. 85 - 98 g/m ² @ 35 µm

	Vernicron FP L451-L458	Thinner V885	Thinner V109
VOC value	40 - 57 %	100 %	100 %

(replaces edition 06.22)

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Special Notes

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 influence the results significantly. Our guarantee covers only the quality of the material delivered. We do not undertake 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 latest edition (also available directly from our website).

Safety Measures

Vernicron FP contains solvents and is combustible, and must therefore be protected from heat and kept away from naked flames. Ensure that ventilation is adequate and do not inhale vapours. All regulations regarding work hygiene and operational measures must be observed.