FreiLacke

FREIOPLAST-Hydro-Digital print
WL1676P

Characteristics	■ Water-thinnable single-layer coating ■ Application, e.g. in the construction and sanitary sector ■ Fast initial drying ■ Forced drying possible ■ Good hardness and elasticity ■ Suitable for plastics ■ Good printability	
Technical / Physical Data	■ Binder-Base	Combination of acrylate/polyurethane resin
	■ Colour	All common colour shades
	■ Gloss value visual	mat
	■ Viscosity DIN 53211 (formerly)	Flow time 35-43 seconds 4 mm viscosity cup
	■ Thinner	demineralised water
	■ pH-Value	8,4-8,8
	■ Density calculated	1,25-1,45 g/ml
	■ Solid Mass calculated	49-63 %
	■ Solid content in volume calculated	270-290 ml/kg
	■ Material usage theoretical, without application loss	280-300 g/m², Layer thickness 80 µm
	■ Reference colour of the specified values	Colour of WL1676PN1258
Substrate	■ PS (Polystyrene) ■ PS (Polystyrene Foam)	
Pretreatment	■ The substrate must be free of adhesion-impairing substances such as oil, grease, rust, scale, rolling skin, wax and separating agent residue. Preliminary tests are recommended for assuring the suitability of coating qualities on the substrate. For more stringent requirements, we recommend: for corrosion protection - e.g. phosphating for adhesion - e.g. blasting, pickling, sanding	
Structure recommendation	■ Substrate	PS (Polystyrene)
	■ Top coat	WL1676PN1258 Dry film thickness 30 µm
Mechanical Test	■ Cross-cut-test DIN EN ISO 2409	Gt 0
Processing and application	■ Prior to use, stir well or mix components homogeneously (e.g. with fast mixer). To prevent skin formation, over-coat with water.	

DIN EN ISO 9001
IATF 16949
EMAS

Emil Frei GmbH & Co. KG
Döggingen
Am Bahnhof 6
78199 Bräunlingen | GERMANY
Phone +49 [0] 7707.151-0
Fax +49 [0] 7707.151-238
www.freilacke.de
info@freilacke.de

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	Object temperature	10-30 °C
	Processing conditions	Room temperature 18-22 °C Relative humidity 40-60 %
	High pressure spraying	as delivered viscosity Nozzle: 1,4 mm Spray pressure 4 bar
	Over-coating capability	possible with same quality, dry at the earliest after matting
	Cleaning of equipment	Immediately with water - possibly with addition of 5-10 % by weight EFD cleaning agent 400916. Dried-on equipment with org. solvents, e.g. EFD thinner 400424.
	Health & Safety at Work guidelines The standard personal safety precautions must be observed when handling painting materials. Detailed information about dangerous substances, safety data and recommendations concerning Health & Safety at Work and environmental protection can be found in the corresponding safety data sheet.	
Curing	Air drying	at 20 °C, 40-60 % relative humidity with air movement
	Dust drying	after 20 min. (degree of drying 1/ DIN EN ISO 9117-5)
	Dry to the touch	after 1 hrs. (degree of drying 4/ DIN EN ISO 9117-5)
	Full drying	after 3 days (pendulum damping/DIN EN ISO 1522)
	Oven drying	possible to 90°C
Resistance to storage	Approx. 12 month in original packagings at an ambient temperature of 5 to 25 °C. Protect from frost. Open packages are to be used within a short time. The minimum storage stability of each batch is stated on the product label. The material does not necessarily become unusable if stored for longer than this period. However, for quality assurance purposes, an inspection of these materials is essential to ensure that they are still suitable for the intended application.	
Specific comments	**EFD-info** Refer to the EFD information for further technical information. Nr. 111	
	Test conditions All information is based on a standard climate 23/50 DIN EN 23270. All information is based on our product knowledge and experience. We have no direct influence on the application itself. Please do not hesitate to contact us for further information. The information provided here contains reference values and does not constitute a specification.	

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