Technical Data Sheet



WL1509L FREIOPLAST-Hydro-Coating

Product description

Product technology	water-thinnable single-layer coating
Application area	e.g. in the mechanical engineering and plant construction sector
Substrate	Steel, iron-phosphated steel

General product properties

Binder-Base	Combination of acrylate/epoxy ester resin		
Colour	All common colour shades		
Gloss value	tuff mat	5-25 GU, Angle 85°	DIN EN ISO 2813
Viscosity	1400-2000 mPa*s, spindle 5,	, 60 revolutions/min.	DIN EN ISO 2555
pH-Value	8,5-8,7		DIN 19260
Solid mass	47-52 %		theoretical
Solid content in volume	35-38 %		theoretical
Reference product	The values given refer to the product with the shade WL1509LRA905.		
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.		

Application and processing

Pretreatment	The substrate must be free of adhesion-impairing substances such as oil, grease, rust, scale, mill scale, wax and release agent residues. We recommend the use of suitable mechanical pre-treatment processes (e.g. blasting, grinding) or chemical pre-treatment processes (e.g. phosphating) according to the requirements.	
Structure recommendation	Substrate	On iron-phosphated steel plate
	Top coat	WL1509LRA905 Dry film thickness 60 μm
Note before use	Prior to use, stir well or mix components homogeneously (e.g. with fast mixer). To prevent skin formation, over-coat with water.	
Thinning	demineralised water	

Our technical data sheets are to provide you with advice based on our latest state of knowledge. This guidance does not release you from your own obligation to test our products for their suitability for your intended purposes and applications. The sale of our products is in accordance with our terms of business, delivery and payment.

DIN EN ISO 9001 | IATF 16949 | EMAS

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Dry film thickness	must not exceed 100 µm – risk of reaction bubbles.	
Object temperature	10-30 °C, minimum +3 °C above dew point temperature	
Processing conditions	Room temperature 18-22 °C Relative humidity 40-60 %	
High pressure spraying	70-80 sec. / 4 mm Flow cup Nozzle 1,4 mm Injection pressure 4 bar	DIN 53211
Material usage	without application loss 270-290 g/m² layer thickness 80 μm	theoretical
Oven drying	up to 80 °C possible	
Air drying	18-22 °C, 40-60 % relative humidity	
Dust drying	after 30 minutes (degree of dryness 1)	DIN EN ISO 9117-5
Dry to the touch	after 1 hours (degree of dryness 4)	DIN EN ISO 9117-5
Full drying	after 10 day/s (pendulum damping)	DIN EN ISO 1522
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.	

Further processing of coated pieces

Repainting	possible with same quality, dry at the earliest after matting.
Comments	
EFD info	Further technical information can be found in the EFD Info. No. 111.
Work-and Healthprotection	The standard personal safety precautions must be observed when handling painting materials. Detailed information about dangerous goods, safety data and recommendations concerning Health and Safety at Work and environmental protection can be found in the corresponding safety data sheet.
Test conditions	All information is based on a standard climate 23/50 DIN EN 23270. All information is based on our product knowledge an 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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