



FREIOPLAST-Hydro-Coating

WL1544M

Characteristics	■	Water-thinnable 1C coating	
	■	Application, e.g. in the mechanical engineering and plant construction sector	
	■	Good adhesion to stainless steel	
	■	Good adhesion to steel and non-ferrous metals	
	■	Fast initial drying	
Technical / Physical Data	■	Binder-Base	Acrylate-styrene copolymer
	■	Colour	All common colour shades
	■	Gloss value visual	mat
	■	Viscosity	1800-2200 mPa.s/ Spindle 4 60 revolution/ min.
	■	Thinner	demineralised water
	■	pH-Value	8,5-8,7
	■	Density calculated	1,15-1,25 g/ml
	■	Solid Mass calculated	42-46 %
	■	Solid content in volume calculated	270-290 ml/kg
	■	Material usage theoretical, without application loss	275-295 g/m², Layer thickness 80 µm
	■	Reference colour of the specified values	Colour of WL1544MRU905
Substrate	■	Steel	
	■	Stainless steel	
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	Stainless steel
	■	Top coat	WL1544MRU905 Dry film thickness 60 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. Dry film thickness must not exceed 100 µm - risk of reaction bubbles.	
	■	Object temperature	10-30 °C

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 and delivery.



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	■ Processing conditions	Room temperature 18-22 °C Relative humidity 40-60 %
	■ Airmix spraying	as delivered viscosity Nozzle 11 mm Angle 30° Material pressure 100 bar Atomiser pressure 3-4
	■ 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 30 min. (degree of drying 1/ DIN EN ISO 9117-5)
	■ Dry to the touch	after 45 Min. (degree of drying 4/ DIN EN ISO 9117-5)
	■ Full drying	after 7 days (pendulum damping/DIN EN ISO 1522)
	■ Oven drying	possible to 80°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.