



FREIOPLAST-Hydro-Coating **WL1509L**

Characteristics	<ul style="list-style-type: none">Water-thinnable single-layer coatingApplication, e.g. in the mechanical engineering and plant construction sectorFast initial dryingForced drying possibleGood adhesion to zinc-plated substrates	
Technical / Physical Data	Binder-Base	Combination of acrylate/epoxy ester resin
	Colour	All common colour shades
	Gloss value DIN EN ISO 2813	tuff mat 5-25 Angle 85°
	Viscosity	1400-2000 mPa.s/ Spindle 5 60 revolution/ min.
	Thinner	demineralised water
	pH-Value	8,5-8,7
	Density calculated	1,15-1,35 g/ml
	Solid Mass calculated	43-46 %
	Solid content in volume calculated	275-295 ml/kg
	Material usage theoretical, without application loss	270-290 g/m², Layer thickness 80 µm
	Reference colour of the specified values	Colour of WL1509LRU905
Substrate	<ul style="list-style-type: none">Steel - preliminary test required for galvanised substrates	
Pretreatment	<ul style="list-style-type: none">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	on iron-phosphated steel plate
	Top coat	WL1509LRU905 Dry film thickness 60 µm
Mechanical Test	Cross-cut-test DIN EN ISO 2409	Gt 0
Resistance Test		
	Condensate constant climate DIN EN ISO 6270-2 (CH)	264 hours Degree of blistering 0 (S 0) DIN EN ISO 4628-2
	Salt spray test (NSS) DIN EN ISO 9227	72 hours Water ingress Wb < 0 mm DIN EN ISO 4628-8

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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	<ul style="list-style-type: none"> Temperature resistance Continuous loading 150°C
Processing and application	<ul style="list-style-type: none"> 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 Processing conditions Room temperature 18-22 °C Relative humidity 40-60 % High pressure spraying 70-80 Sec./ 4 mm Viscosity cup (DIN 53211) 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	<ul style="list-style-type: none"> 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 1 hrs. (degree of drying 4/ DIN EN ISO 9117-5) Full drying after 10 days (pendulum damping/DIN EN ISO 1522) Oven drying possible to 80°C
Resistance to storage	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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.



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The information provided here contains reference values and does not constitute a specification.