



FREIOPLAST-Hydro-Coating

WL1710L

Characteristics	<ul style="list-style-type: none"> ■ Water-thinnable 1C coating ■ Application, e.g. in the vehicle construction sector ■ Fast initial drying ■ Fast complete drying ■ Good stone chip resistance ■ Good flexibility ■ Anti-drumming compound between components 																						
Technical / Physical Data	<table> <tr> <td>■ Binder-Base</td><td>Polyurethane resin dispersion</td></tr> <tr> <td>■ Colour</td><td>All common colour shades</td></tr> <tr> <td>■ Gloss value DIN EN ISO 2813</td><td>tuff mat 3-10 Angle 85°</td></tr> <tr> <td>■ Viscosity</td><td>11000-15000 mPa.s/ Spindle 6 60 revolution/ min.</td></tr> <tr> <td>■ Thinner</td><td>demineralised water</td></tr> <tr> <td>■ pH-Value</td><td>8,0-8,5</td></tr> <tr> <td>■ Density calculated</td><td>1,2-1,4 g/ml</td></tr> <tr> <td>■ Solid Mass calculated</td><td>59-61 %</td></tr> <tr> <td>■ Solid content in volume calculated</td><td>454-494 ml/kg</td></tr> <tr> <td>■ Material usage theoretical, without application loss</td><td>2400-2800 g/m², Layer thickness 1000 µm</td></tr> <tr> <td>■ Reference colour of the specified values</td><td>Colour of WL1710LM2166</td></tr> </table>	■ Binder-Base	Polyurethane resin dispersion	■ Colour	All common colour shades	■ Gloss value DIN EN ISO 2813	tuff mat 3-10 Angle 85°	■ Viscosity	11000-15000 mPa.s/ Spindle 6 60 revolution/ min.	■ Thinner	demineralised water	■ pH-Value	8,0-8,5	■ Density calculated	1,2-1,4 g/ml	■ Solid Mass calculated	59-61 %	■ Solid content in volume calculated	454-494 ml/kg	■ Material usage theoretical, without application loss	2400-2800 g/m², Layer thickness 1000 µm	■ Reference colour of the specified values	Colour of WL1710LM2166
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Substrate	<ul style="list-style-type: none"> ■ KTL primed 																						
Pretreatment	<ul style="list-style-type: none"> ■ The substrate must be free of adhesion-impairing substances such as oil, grease, wax and separating agent residue. Preliminary tests are recommended for assuring the suitability of coating qualities on the substrate. 																						
Structure recommendation	<table> <tr> <td>■ Substrate</td><td>KTL-primed</td></tr> <tr> <td>■ Top coat</td><td>WL1710LM2166 Dry film thickness 1000 µm</td></tr> </table>	■ Substrate	KTL-primed	■ Top coat	WL1710LM2166 Dry film thickness 1000 µm																		
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	■ Salt spray test (NSS) DIN EN ISO 9227	240 hours Water ingress Wb < 2 mm DIN EN ISO 4628-8
	■ Temperature resistance	Short time loading 60°C
	■ Chemical resistance	Needs to be checked. The temperature and concentration of chemicals have a major influence on the test outcome.
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 5000 µm - risk of reaction bubbles.	
	■ Object temperature	10-30 °C
	■ Processing conditions	Room temperature 18-22 °C Relative humidity 40-60 %
	■ Airless spraying	as delivered viscosity Nozzle 0,15 mm angle 40° Material pressure 120 bar
	■ High pressure spraying	as delivered viscosity Nozzle: 2 mm Spray pressure 3 bar
	■ Rolling / painting	as delivered viscosity
	■ 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.
Curing	■ 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.	
	■ Air drying	at 20 °C, 50 % relative humidity with air movement
	■ Dust drying	after 30 min. (degree of drying 1/ DIN EN ISO 9117-5)
	■ Dry to the touch	after 6-8 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 70°C
Resistance to storage	■ Approx. 9 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	

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	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 + 510 ■ 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.