



## WL1609M

## FREIOPLAST-Hydro-Digital printing base

### Product description

<b>Product technology</b>	water-thinnable single-layer coating
<b>Application area</b>	e.g. in the construction and sanitary sector
<b>Mechanical resistance</b>	good hardness and elasticity
<b>Substrate</b>	PS (polystyrene), PS (polystyrene foam), Plastic, not defined in more detail

### General product properties

<b>Binder-Base</b>	Acrylic Resin
<b>Colour</b>	All common colour shades
<b>Gloss visually</b>	matt
<b>Viscosity</b>	Flow time 35-43 sec. 4 mm flow cup <span style="float: right;">DIN 53211</span>
<b>pH-Value</b>	8,1-8,6 <span style="float: right;">DIN 19260</span>
<b>Density</b>	1,25-1,45 g/cm <sup>3</sup> <span style="float: right;">theoretical</span>
<b>Solid mass</b>	50-54 % <span style="float: right;">theoretical</span>
<b>Solid content in volume</b>	36-37 % <span style="float: right;">theoretical</span>
<b>Reference product</b>	The values given refer to the product with the shade WL1609MRA910.
<b>Resistance to storage</b>	<p>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.</p> <p>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.</p>

### Application and processing

<b>Pretreatment</b>	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.				
<b>Structure recommendation</b>	<table border="0"> <tr> <td>Substrate</td> <td>PS (polystyrene)</td> </tr> <tr> <td>Top coat</td> <td>WL1609MRA910 Dry film thickness 30-50 µm</td> </tr> </table>	Substrate	PS (polystyrene)	Top coat	WL1609MRA910 Dry film thickness 30-50 µm
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Top coat	WL1609MRA910 Dry film thickness 30-50 µm				
<b>Note before use</b>	Prior to use, stir well or mix components homogeneously (e.g. with fast mixer). To prevent skin formation, over-coat with water.				
<b>Thinning</b>	demineralised water				
<b>Object temperature</b>	10-30 °C, minimum +3 °C above dew point temperature				



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<b>Processing conditions</b>	Room temperature 18-22 °C Relative humidity 40-60 %	
<b>High pressure spraying</b>	as delivered viscosity nozzle 1,4 mm spray pressure 4 bar	
<b>Material usage</b>	without application loss 60-100 g/m <sup>2</sup> layer thickness 30-50 µm	theoretical
<b>Oven drying</b>	up to 90 °C possible	
<b>Air drying</b>	18-22 °C, 40-60 % relative humidity	
<b>Dust drying</b>	after 20 minutes (degree of dryness 1)	DIN EN ISO 9117-5
<b>Dry to the touch</b>	after 1 hours (degree of dryness 4)	DIN EN ISO 9117-5
<b>Full drying</b>	after 3 day/s (pendulum damping)	DIN EN ISO 1522
<b>Cleaning of equipment</b>	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

<b>Repainting</b>	possible with same quality, dry at the earliest after matting.
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#### Comments

<b>EFD info</b>	Further technical information can be found in the EFD Info. No. 111.
<b>Work-and Healthprotection</b>	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.
<b>Test conditions</b>	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.