Technical Datasheet

FreiLacke

FREIOPLAST-Hydro-Coating
WL1551M

Characteristics	■ Water-thinnable single-layer coating
	■ Application, e.g. in the construction and sanitary sector
	■ Good initial water resistance
	■ Good adhesion to zinc-plated substrates
Technical / Physical Data	■ Binder-Base — Acrylate-styrene copolymer
	■ Gloss value _visual_ — tuff mat
	■ Viscosity — 1500-2200 mPa.s/ Spindle 4 60 revolution/ min.
	■ Thinner — demineralised water
	■ pH-Value — 9,0-9,5
	■ Density _calculated_ — 1,15-1,35 g/ml
	■ Solid Mass _calculated_ — 49-51 %
	■ Solid content in volume _calculated_ — 270-280 ml/kg
	■ Material usage _theoretical, without application loss_ — 285-295 g/m², Layer thickness 80 µm
	■ Reference colour of the specified values — Colour of WL1551MB2469
Substrate	■ Steel - preliminary test required for galvanised substrates
	■ Steel, passivated or pretreated substrates
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 — on zinc-phosphated steel plate
	■ Top coat — WL1551MB2469 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 80 µm - risk of reaction bubbles.
	■ Object temperature — 10-30 °C
	■ Processing conditions — Room temperature 15-25 °C Relative humidity 40-70 %
	■ High pressure spraying — as delivered viscosity

DIN EN ISO 9001
IATF 16949
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		Nozzle: 1,4 mm Spray pressure 4 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.
	◼ 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, 40-70 % relative humidity with air movement
	◼ Dust drying	after 25 min. (degree of drying 1/ DIN EN ISO 9117-5)
	◼ Dry to the touch	after 35 Min. (degree of drying 4/ DIN EN ISO 9117-5)
	◼ Full drying	after 5 days (pendulum damping/DIN EN ISO 1522)
	◼ Oven drying	possible to 100°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.	

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