WT4100MRU910

FREIOTHERM-LC-DipTec

Product description

Product technology	water-borne dipping coating
Application area	e.g. in the construction and sanitary sector
Application	Primer
Type of paste	Subsequent paste filling, fully neutralised

General product properties

Binder-Base	Acrylic-Polyester Resin	
Colour	Pure white	
Viscosity	2000 - 6000 mPa*s, spindle 5, 60 revolutions/min.	DIN EN ISO 2555
pH-Value	8,7 - 9,2	DIN 19260
Density	1,2 - 1,4 g/cm³	theoretical
Solid mass	72 - 76 %	theoretical
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.	

Application and processing

Pretreatment	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.	
Gloss value	5 - 25 GU, Angle 60°	DIN EN ISO 2813
Structure recommendation	Substrate	On iron-phosphated steel plate
	Primer	WT4100MRU910 Dry film thickness 5 - 15 µm
	Top coat	PL1004A Dry film thickness 60 - 80 µm

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Note before use	Prior to use, stir well or mix components homogeneously (e.g. with fast mixer). To prevent skin formation, over-coat with water.
Thinning	demineralised water
Recommended coating thickness	5 - 15 µm
Flow Time	18 - 24 sec. / 4 mm flow cup (ISO 2431)
pH-Value	8,7 - 9,2 DIN 19260
Solid mass	28 - 34 % DIN EN ISO 3251
Organic Solvent Content	4 - 12 %
Bath Temperature	20 - 30 °C
Coating Time	60-180 sec.
Turn-over	1 Turnover per year To ensure bath stability and thus the coating quality, the specified turnover (solids exchange of the tank) must be observed.
Note on greenbake	The coating is suitable for greenbake if you use modified powder coatings for overpainting. The processing company is responsible for ensuring that the coating is fully cured. The complete curing of the coating must be checked by means of additional analytical and resistance tests using representative original parts under production conditions. Please do not hesitate to contact us if you require consultation.
Oven drying	10 min. / 120 °C - 20 min. / 130 °C (object temperature)
Cleaning of equipment	cleaning immediately with water, dried-on equipment with org. solvents, e.g. EFD cleaner.

Mechanical tests

Test substrate	on iron phosphating		
Cross-cut-test	Gt <1		DIN EN ISO 2409

Climatic tests

Test substrate	on iron phosphating		
Condensation water - alternating climate	Load duration	4 Cycles	DIN EN ISO 6270-2 AHT
	Bubble degree Surface	0(S0)	DIN EN ISO 4628-2
	Detachment Cut	[Varibale 4] mm	DIN EN ISO 4628-8
	Corrosion cut	[Varibale 5] mm	DIN EN ISO 4628-8
	Cross cut	Gt [Varibale 7]	DIN EN ISO 2409

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Comments

Work-and Healthprotection	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.
Test conditions	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.

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