UR9140M_HU0001
EFDEDUR-System-Coating

Product description

Product technology	solvent-based 2-component coating
Application area	e.g. in the mechanical engineering and plant construction sector
Application	For interior and exterior applications
Resistance to light and weather	good
System coating structure	possible (see information)
Standard-System	UR1040M
Substrate	PC (polycarbonate), PMMA (polymethyl methacrylate), PVC (polyvinyl chloride), PA 6 (polyamide 6), GRP (glassfibre reinforced plastic), ABS (acrylonitrile butadiene styrene), Non-ferrous metals, Steel

General product properties

Binder-Base	Acrylic Resin	
Colour	according to FreiLacke reference sample	
Gloss value	According to the powder reference sample	
Viscosity	Flow time 90-120 sec., 4 mm flow cup	DIN 53211
Density	1,00-1,30 g/ml after addition of hardener	theoretical
Solid mass	47-63 % after addition of hardener	theoretical
Solid content in volume	38-48 % after addition of hardener	theoretical
Reference product	The specified values refer to the product UR9140ML1807.	
Resistance to storage	approx. 24 month in original packagings at an ambient temperature of 5 to 25 °C. 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.

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, delivery and payment.

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Structure recommendation	Substrate	Steel	
	Primer	ER1912M Mixing ratio 5:1 HE0052 Dry film thickness 70-90 µm	
	Top coat	UR9140M Mixing ratio 10:1 HU0001 Dry film thickness 40-60 µm	
Note before use	Prior to use, stir well or mix components homogeneously (e.g. with fast mixer).		
Hardener	HU0001		
Mixin ratio	Parts by weight 10:1		
Thinning	EFD dilution 400320 EFD dilution 400500 EFD dilution 400018		
Processing conditions	from 10 °C to 25 °C		
Processing time	max. 6 hrs. / 20 °C The processing time can decrease at higher temperatures and/or under pressure.		
High pressure spraying	Set to 18-22 sec / 4 mm flow-cup after adding hardener Nozzle 1,4 mm Spray pressure 3-4 bar	DIN 53211	
Rolling/painting	as delivered viscosity after curing agent addition Add 0,5 to 1,0% by wight EFD-Relaxation agent 300807 for roller and brush application in case of bubble formation.		
Material usage	without application loss 100-140 g/m² layer thickness 50 µm after addition of hardener	theoretical	
Oven drying	up to 100 °C possible (object temperature)		
Air drying	20 °C, 50 % relative humidity		
Dust drying	after 30 minutes (degree of dryness 1)	DIN EN ISO 9117-5	
Dry to the touch	after 7 hours (degree of dryness 4)	DIN EN ISO 9117-5	
Full drying	after 14 day/s (pendulum damping)	DIN EN ISO 1522	
Cleaning of equipment	EFD dilution 400500		

Comments

EFD info	Further technical information can be found in the EFD Info. No. 170.
System Coating	Can be integrated into the system coating concept as a horizontal system coating (different coatings with the same look) or vertical system coating (part of a multi-layer structure). For more information, see www.freilacke.de/systemlacke.

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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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