



UR1991Z_HU0090 EFDEDUR-HighSolid-Coating

Product description

Product technology	High-solid coating
Application area	e.g. in the mechanical engineering and plant construction sector
Stability	good
Substrate	Steel, Stainless steel, Steel, blasted

General product properties

Binder-Base	Acrylic Resin	
Colour	in accordance with RAL 841 GL other colours on request	
Gloss value	according to customer requirements	
Viscosity	Flow time 35-60 sec., 4 mm flow cup	DIN 53211
Density	1,25-1,40 g/ml after addition of hardener	theoretical
Solid mass	66,0-71,0 % after addition of hardener	theoretical
Solid content in volume	50,0-55,0 % after addition of hardener	theoretical
Reference product	The specified values refer to the product UR1991ZL1522.	
Resistance to storage	approx. 12 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.	



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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.	
Structure recommendation	Substrate	Steel
	Primer	ER1936H Mixing ratio 6:1 HE0051 Dry film thickness 70-90 µm
	Top coat	UR1991Z Mixing ratio 5:1/10:1 HU0090 Dry film thickness 40 µm
Note before use	Prior to use, stir well or mix components homogeneously (e.g. with fast mixer).	
Hardener	HU0090	
Mixin ratio	Parts by weight 5:1 / 10:1	
Thinning	EFD dilution 400450 EFD dilution 400320	
Processing conditions	from 10 °C to 25 °C	
Processing time	max. 5 hrs. / 20 °C The processing time can decrease at higher temperatures and/or under pressure.	
Airless spraying	as delivered viscosity after curing agent addition Nozzle 0,33 mm Angle 40° Material pressure 150 bar	
Airmix spraying	as delivered viscosity after curing agent addition Nozzle 0,33 mm angle 40° Material pressure 80-120 bar Atomiser pressure 3,0 bar	
High pressure spraying	Set to 25-35 sec / 4 mm flow-cup after adding hardener Nozzle 1,5-1,8 mm Spray pressure 5 bar	DIN 53211
Rolling/painting	as delivered viscosity Add 0,3 to 0,5% by wight EFD-Relaxation agent 300807 for roller and brush application in case of bubble formation.	
Electrostatic	possible, system-specific	
Material usage	without application loss 90-115 g/m² layer thickness 40 µm after addition of hardener	theoretical
Oven drying	up to 80 °C possible (object temperature)	
Air drying	20 °C, 50 % relative humidity	
Dust drying	after 40 minutes (degree of dryness 1)	DIN EN ISO 9117-5

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.

DIN EN ISO 9001 | IATF 16949 | EMAS

Page 2/3 | Version 1

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UR1991Z_HU0090 EFDEDUR-HighSolid-Coating

Dry to the touch	after 24 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	with EFD dilution 400500 within the processing time.	

Further processing of coated pieces

Repainting	possible with same quality, dry at the earliest after matting.
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Comments

EFD info	Further technical information can be found in the EFD Info. No. 170.
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.