UR1020H_HU0001
EFDEDUR-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
Substrate	PC (polycarbonate), PMMA (polymethyl methacrylate), PA 6 (polyamide 6), ABS (acrylonitrile butadiene styrene), Non-ferrous metals, Steel

General product properties

Binder-Base	Acrylic Resin		
Colour	in accordance with RAL 840 HR other colours on request		
Gloss value	satin glossy	40-60 GU, Angle 60°	DIN EN ISO 2813
Viscosity	Flow time 90-120 sec., 4 mm flow cup		DIN 53211
Density	1,15-1,40 g/ml after addition of hardener		theoretical
Solid mass	63-68 % after addition of hardener		theoretical
Solid content in volume	48-51 % after addition of hardener		theoretical
Reference product	The specified values refer to the product UR1020HRA742.		
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.	
Structure recommendation	Substrate	Steel
	Primer	ER1912M Mixing ratio 5:1 HE0052 Dry film thickness 70-90 µm
	Top coat	UR1020H Mixing ratio 5:1 HU0001 Dry film thickness 40-60 µm
Note before use	Prior to use, stir well or mix components homogeneously (e.g. with fast mixer).	

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Hardener	HU0001	
Mixin ratio	Parts by weight 5:1	
Thinning	EFD dilution 400320 EFD dilution 400500	
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.	
Airless spraying	as delivered viscosity after curing agent addition Nozzle 0,28 mm Angle 40° Material pressure 120 bar	
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	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 120-140 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 14 hours (degree of dryness 4)	DIN EN ISO 9117-5
Full drying	after 10 day/s (pendulum damping)	DIN EN ISO 1522
Cleaning of equipment	EFD dilution 400500	

Comments

Alternative hardener	for better chemical resistance	HU0032
	for faster curing; for indoor use	HU0032
	for higher hardness	HU0032
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.	

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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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