



## UR1040M\_HU0001 EFDEDUR-Coating

### Product description

<b>Product technology</b>	solvent-based 2-component coating		
<b>Application area</b>	e.g. in the mechanical engineering and plant construction sector		
<b>Application</b>	For interior and exterior applications		
<b>Resistance to light and weather</b>	good		
<b>Substrate</b>	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

<b>Binder-Base</b>	Acrylic Resin		
<b>Colour</b>	Solid colours		
<b>Gloss value</b>	mat	40-60 GU, Angle 85°	DIN EN ISO 2813
<b>Viscosity</b>	Flow time 90-120 sec., 4 mm flow cup		DIN 53211
<b>Density</b>	1,1-1,3 g/ml after addition of hardener		theoretical
<b>Solid mass</b>	57-65 % after addition of hardener		theoretical
<b>Solid content in volume</b>	45-49 % after addition of hardener		theoretical
<b>Reference product</b>	The specified values refer to the product UR1040MRA901.		
<b>Resistance to storage</b>	<p>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.</p> <p>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.</p>		

### Application and processing

<b>Pretreatment</b>	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.		
<b>Structure recommendation</b>	Substrate	Steel	
	Primer	ER1912M Mixing ratio 5:1 HE0052 Dry film thickness 70-90 µm	



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<b>Note before use</b>	Top coat	UR1040M Mixing ratio 10:1 HU0001 Dry film thickness 40-60 µm
<b>Hardener</b>	Prior to use, stir well or mix components homogeneously (e.g. with fast mixer).	
<b>Mixin ratio</b>	HU0001	
<b>Thinning</b>	Parts by weight 10:1	
<b>Processing conditions</b>	EFD dilution 400320 EFD dilution 400500	
<b>Processing time</b>	from 10 °C to 25 °C	
<b>High pressure spraying</b>	max. 6 hrs. / 20 °C The processing time can decrease at higher temperatures and/or under pressure.	
<b>Rolling/painting</b>	Set to 18-22 sec / 4 mm flow-cup after adding hardener Nozzle 1,4 mm Spray pressure 3-4 bar	DIN 53211
<b>Material usage</b>	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.
<b>Oven drying</b>	without application loss 120-140 g/m <sup>2</sup> layer thickness 50 µm after addition of hardener	theoretical
<b>Air drying</b>	up to 100 °C possible (object temperature)	
<b>Dust drying</b>	20 °C, 50 % relative humidity	
<b>Dry to the touch</b>	after 30 minutes (degree of dryness 1)	DIN EN ISO 9117-5
<b>Full drying</b>	after 7 hours (degree of dryness 4)	DIN EN ISO 9117-5
<b>Cleaning of equipment</b>	after 14 day/s (pendulum damping)	DIN EN ISO 1522
<b>Cleaning of equipment</b>	EFD dilution 400500	

### Comments

<b>Alternative hardener</b>	for better chemical resistance	HU0032
<b>EFD info</b>	for faster curing; for indoor use	HU0032
<b>Work-and Healthprotection</b>	for higher hardness	HU0032
Further technical information can be found in the EFD Info. No. 170.		
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 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.