Technical Datasheet





Characteristics	Water-thinnable 2C coating		
	Application, e.g. in the vehicle construction sector		
	■ Fast initial drying		
	Good light and weather resistance		
Technical / Physical Data	Binder-Base	Acrylate resin crosslinked with polyisocyanate	
	Colour	All common colour shades	
	Gloss value DIN EN ISO 2813	satin mat 35-45 Angle 85°	
	Viscosity DIN 53211 (formerly)	Flow time 35-45 seconds 4 mm viscosity cup	
	Hardener	HU0448 See technical data sheet	
	Mixing ratio	Parts by weight 6:1	
	Mixing ratio	Parts by volume 5:1	
	Thinner	demineralised water	
	pH-Value	8,0-8,8	
	Density calculated	1,20-1,24 g/ml	
	Density calculated	1,15-1,20 g/ml after adding hardener	
	Solid Mass calculated	45-48 %	
	Solid Mass calculated	47-50 % after adding hardener	
	Solid content in vo	olume 310-350 ml/kg	
	Solid content in vo	olume 300-340 ml/kg after adding hardener	
	Material usage theoretical, without applica	120-130 g/m², Layer thickness 40 μm after adding hardener	
	Reference colour specified values	of the Colour of WU1448MRA905	
Substrate	Steel, passivated	or pretreated substrates	
	Primer		
Pretreatment	The substrate must be free of adhesion-impairing substances such as oil, grease, wax and separating agent residue. Preliminary tests are recommended for assuring the suitability of coating qualities on the substrate.		
Structure recommendation	Substrate	KTL-primed	
	Top coat	WU1448MRA905 Mixing ratio 6:1/ HU0448	

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		Dry film thickness 40 μm	
Mechanical Test	Cross-cut-test DIN EN ISO 2409	Gt 0	
Resistance Test			
	Condensate constant clima DIN EN ISO 6270-2 (CH)	te 240 hours Degree of blistering 0 (S 0) DIN EN ISO 4628-2	
	Salt spray test (NSS) DIN EN ISO 9227	480 hours Water ingress Wb < 2 mm DIN EN ISO 4628-8	
	■ Temperature resistance	Short time loading 120°C	
	■ Chemical resistance	Needs to be checked. The temperature and concentration of chemicals have a major influence on the test outcome.	
Processing and application	Prior to use, stir well or mix components homogeneously (e.g. with fast mixer). To prevent skin formation, over-coat with water.		
	Dry film thickness must not exceed 70 µm - risk of reaction bubbles.		
	Object temperature	10-30 °C	
	Processing conditions	Room temperature 18-22 °C Relative humidity 40-60 %	
	■ Processing time	max. 4 hrs./ 20 °C End of the processing time cannot be detected from gelling. The processing time can decrease at higher temperatures and/or under pressure.	
	Airmix spraying	30-40 Sec./ 4 mm Viscosity cup (DIN 53211) Nozzle 0,23 mm Angle 30° Material pressure 80 bar Atomiser pressure 2-4	
	■ High pressure spraying	30-40 Sec./ 4 mm Viscosity cup (DIN 53211) Nozzle 1,5 mm Spray pressure 3 bar	
	Rolling / painting	as delivered viscosity	
	Over-coating capability	possible with same quality, dry at the earliest after matting	
	■ Cleaning of equipment	Immediately with water - possibly with addition of 5-10 % by weight EFD cleaning agent 400916. Dried-on equipment with org. solvents, e.g. EFD thinner 400424. Do not mix curing agent with water! The cleaning must be carried out with organic solvents.	
	The standard personal safe painting materials. Detailed data and recommendations	Health & Safety at Work guidelines The standard personal safety precautions must be observed when handling painting materials. Detailed information about dangerous substances, safety data and recommendations concerning Health & Safety at Work and environmental protection can be found in the corresponding safety data sheet.	
Curing	Air drying	at 20°C, 50% relative humidity with air movement	

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	Dust drying	after 30 min. (degree of drying 1/ DIN EN ISO 9117-5)
	Dry to the touch	after 8 hrs. (degree of drying 4/ DIN EN ISO 9117-5)
	■ Full drying	after 8 days (pendulum damping/DIN EN ISO 1522)
	Oven drying	possible to 80°C
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.	
Specific comments	All information is based on our direct influence on the applicat further information.	tandard climate 23/50 DIN EN 23270. product knowledge and experience. We have no ion itself. Please do not hesitate to contact us for contains reference values and does not constitute a