GS1041H_HU0010
EFDEDUR-Structure Coating

Product description

Product technology	solvent-based 2-component coating
Surface	Different structures are possible depending on application and viscosity.
Application	For interior and exterior applications
Property	Silicone-free
Drying	quickly
Full drying	fast complete drying
Substrate	Steel

General product properties

Binder-Base	Acrylic Resin		
Colour	in accordance with RAL 840 HR other colours on request		
Gloss value	satin mat	20-30 GU, Angle 60° The degree of gloss is strongly dependent on the structure. The given value refers to a smooth, weakly structured surface.	DIN EN ISO 2813
Viscosity	3000-8000 mPa*s, spindle 6, 60 revolutions/min.		DIN EN ISO 2555
Density	1,25-1,4 g/ml after addition of hardener		theoretical
Solid mass	67,0-72,5 % after addition of hardener		theoretical
Solid content in volume	52,0-55,5 % after addition of hardener		theoretical
Reference product	The specified values refer to the product GS1041HRA735.		
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

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	Primer	ER1912M Mixing ratio 5:1 HE0052 Dry film thickness 70-90 µm
	Top coat	GS1041H Mixing ratio 10:1 HU0010 Dry film thickness 40-60 µm
Note before use	Prior to use, stir well or mix components homogeneously (e.g. with fast mixer).	
Hardener	HU0010	
Mixin ratio	Parts by weight 10:1 HU0010	
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.	
High pressure spraying	Following the addition of the curing agent, set the processing viscosity in accordance with the respective application process. Depending on the desired texture, the application takes place in one (self-forming texture) or in two operations (sprinkle effect): 1.) Self-forming texture (one operation) e.g. Sata jet® Nozzle 1,5-2,0 mm Spray pressure 3-5 bar Cross coats 1-2 2.) Sprinkle effect (two operations A + B) e.g. Sata jet® Nozzle 1,5-2,0 mm Cross coats 1-2 A) Spray pressure 3-5 bar, smooth pre-spraying following the drying of the coating surface (approx. 30 min. / 20°C) B) Sprinkle the desired texture using reduced spray pressure Spray pressure 0,5-2,0 bar By changing the spray pressure, nozzle diameter, coating viscosity, spray guns and system setting, different surface textures can be achieved. Any wearing of the nozzles and system must be taken into account. Additional application options must be tested.	
Rolling/painting	rolling/painting	e.g. with microfibre roll
Electrostatic	possible, system-specific	
Material usage	without application loss 120-130 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

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Dry to the touch	after 5 hours (degree of dryness 4)	DIN EN ISO 9117-5
Full drying	after 8 day/s (pendulum damping)	DIN EN ISO 1522
Cleaning of equipment	EFD dilution 400500	

Comments

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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