Technical Data Sheet





UR1991Z_HU0090EFDEDUR-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 35-55 sec., 4 mm flow cup DIN 53211

Density1,25-1,40 g/ml after addition of hardenertheoreticalSolid mass66,0-71,0 % after addition of hardenertheoreticalSolid content in volume50,0-55,0 % after addition of hardenertheoretical

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.

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.

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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 DIN 53211

Nozzle 1,5-1,8 mm Spray pressure 5 bar

Rolling/painting 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 theoretical

layer thickness 40 µm after addition of hardener

Air drying 20 °C, 50 % relative humidity

Oven drying up to 80 °C possible (object temperature)

Dust drying after 40 minutes (degree of dryness 1) DIN EN ISO 9117-5

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DIN EN ISO 9001 | IATF 16949 | EMAS

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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.

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.

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The information provided here contains reference values and does not constitute a

specification.

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