Technical Data Sheet





WU1451H_HU0050_METALLIC EFDEDUR-Hydro-Metal Effectcoat

Product description

Product technology water-thinnable 2C coating

Application area e.g. in the vehicle construction sector

Surface finishMetallic effectApplicationfor exterior use

Substrate Primer

General product properties

Solid content in volume

Binder-Base Acrylic Resin

Colour Metallic colour shades

Gloss value satin glossy 55-70 GU, angle 60° DIN EN ISO 2813

Viscosity Flow time 40-50 sec. 4 mm flow cup DIN 53211

pH-Value 7,5-8,5 DIN 19260

Solid mass 42-44 % after addition of hardener theoretical

Reference product The values given refer to the product with the shade WU1451HRA906.

37-39 % after addition of hardener

Resistance to storage approx. 6 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.

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

The sale of our products is in accordance with our terms of business, delivery and payment.

for your intended purposes and applications.

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theoretical

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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

On blasted steel plate

Primer WE1935MRU124

Mixing ratio 8:1/HE0041 Dry film thickness 60 μm

Top coat WU1451HRA906

Mixing ratio 5:1/ HU0050 Dry film thickness 40 μm

Note before use Prior to use, stir well or mix components homogeneously (e.g. with fast mixer). To prevent

skin formation, over-coat with water.

Hardener HU0050 see technical data sheet

Mixin ratio Parts by weight 5:1

Volume parts 5,3:1

Thinning demineralised water

Dry film thickness must not exceed 60 µm – risk of reaction bubbles.

Object temperature 10-30 °C, minimum +3 °C above dew point temperature

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 30-60 sec. / 4 mm viscosity cup DIN 53211

Nozzle 0,23 mm angle 40° Material pressure 80 bar Atomiser pressure 3 bar

High pressure spraying 30-50 sec. / 4 mm Flow cup DIN 53211

Nozzle 1,5 mm

Injection pressure 3 bar

Material usage without application loss 80-90 g/m² theoretical

layer thickness 25 µm after addition of hardener

Print date: May 24, 2024

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Revision date: Mar 15, 2024

DIN EN ISO 9001 | IATF 16949 | EMAS

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Oven drying up to 80 °C possible

Intermediate drying 60 min. / 20 °C (object temperature)

Air drying 18-22 °C, 40-60 % relative humidity

Dust drying DIN EN ISO 9117-5 after 60 minutes (degree of dryness 1)

Dry to the touch after 8 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 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.

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. 109 + 111 + 510.

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.

Print date: May 24, 2024

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.

Revision date: Mar 15, 2024

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