



## GS1976D\_HU0036

## EFDEDUR-HighSolid-Structure Coating

### Product description

|                             |                                                                |
|-----------------------------|----------------------------------------------------------------|
| <b>Product technology</b>   | solvent-based 2-component coating                              |
| <b>Application</b>          | For interior and exterior applications                         |
| <b>Property</b>             | Silicone-free                                                  |
| <b>Corrosion protection</b> | good                                                           |
| <b>Substrate</b>            | Plastic, not defined in more detail, Non-ferrous metals, Steel |

### General product properties

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                   |                 |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>Binder-Base</b>             | Acrylic Resin                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                   |                 |
| <b>Colour</b>                  | in accordance with RAL 840 HR<br>other colours on request                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                   |                 |
| <b>Gloss value</b>             | satin mat                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 25-45 GU, Angle 60°<br>The degree of gloss is strongly dependent on the structure. The given value refers to a smooth, weakly structured surface. | DIN EN ISO 2813 |
| <b>Viscosity</b>               | 3500-5000 mPa*s, spindle 6, 60 revolutions/min.                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                   | DIN EN ISO 2555 |
| <b>Density</b>                 | 1,31-1,51 g/ml after addition of hardener                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                   | theoretical     |
| <b>Solid mass</b>              | 72-76 % after addition of hardener                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                   | theoretical     |
| <b>Solid content in volume</b> | 390-430 ml/kg after addition of hardener                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                   | theoretical     |
| <b>Reference product</b>       | The specified values refer to the product GS1976DD2403.                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                   |                 |
| <b>Resistance to storage</b>   | 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.<br><br>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. |                                                                                                                                                   |                 |



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### 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                                                                                                                                                                                                                                                                                                                     | Non-ferrous metals<br>e.g. aluminium                              |
|                                 | Primer                                                                                                                                                                                                                                                                                                                        | ER1912M<br>Mixing ratio 5:1 HE0052<br>Dry film thickness 70-90 µm |
|                                 | Top coat                                                                                                                                                                                                                                                                                                                      | GS1976D<br>Mixing ratio 8:1 HU0036<br>Dry film thickness 70-90 µm |
| <b>Note before use</b>          | Prior to use, stir well or mix components homogeneously (e.g. with fast mixer).                                                                                                                                                                                                                                               |                                                                   |
|                                 | Steel:                                                                                                                                                                                                                                                                                                                        | Priming is not absolutely essential.                              |
|                                 | Non-ferrous metals:                                                                                                                                                                                                                                                                                                           | A primer is absolutely essential.                                 |
|                                 | Plastic:                                                                                                                                                                                                                                                                                                                      | A primer is absolutely essential.                                 |
| <b>Hardener</b>                 | HU0036                                                                                                                                                                                                                                                                                                                        |                                                                   |
| <b>Mixin ratio</b>              | Parts by weight 8:1                                                                                                                                                                                                                                                                                                           |                                                                   |
|                                 | Volume parts 5,8:1                                                                                                                                                                                                                                                                                                            |                                                                   |
| <b>Thinning</b>                 | EFD dilution 400320                                                                                                                                                                                                                                                                                                           |                                                                   |
|                                 | EFD dilution 400500                                                                                                                                                                                                                                                                                                           |                                                                   |
| <b>Processing conditions</b>    | from 10 °C to 25 °C                                                                                                                                                                                                                                                                                                           |                                                                   |
| <b>Processing time</b>          | max. 2 hrs. / 20 °C                                                                                                                                                                                                                                                                                                           |                                                                   |
|                                 | The processing time can decrease at higher temperatures and/or under pressure.                                                                                                                                                                                                                                                |                                                                   |



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### 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

as delivered viscosity after curing agent addition

### Electrostatic

possible, system-specific

### Material usage

without application loss 180-220 g/m<sup>2</sup>

theoretical

layer thickness 70-90 µm after addition of hardener

### Oven drying

up to 70 °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

### Dry to the touch

after 3 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

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 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.