

## SUPERDUR HS INDUSTRY TOPCOAT 6D830-30

Series 6D830-30 · Matt, high-build 2K PU acrylic topcoat with long open time for interior and exterior



### 01 PRODUCT DESCRIPTION

**Superdur HS Industry Topcoat 6D830-30** is a matt, high-build 2K polyurethane-acrylic topcoat with a long open time. It is suited to high-quality coatings of façades, machinery and structures and can also be applied by brush and roller. The topcoat is characterized by high UV and weather resistance, solvent resistance and a scratch-resistant, durable surface, and is suited to long-lasting interior and exterior applications.

### 02 PRODUCT PROPERTIES

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Binder system      | Polyurethane-acrylic system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Hardener system    | Superdur HS Hardener 7D701 (standard)   7D700 (short)   7D702 (long)   7D703 (extra long, roller/brush)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Adjustment thinner | Superdur Thinner 5D402   5D411                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Cleaning thinner   | Superdur Thinner 5D411                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Characteristics    | <div>  High film build            Electrostatic application            UV &amp; weather resistant            Solvent-resistant            Scratch-resistant         </div> |
| Color shade        | Various RAL color shades (on request)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Gloss              | Satin matt, 25–35 GU (60°)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Shelf life         | Approx. 12 months in the unopened original container at +4 °C to +40 °C. Protect from frost and moisture.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| Property                                  | Comp. A                                       | Comp. B                                       | Mixture                                       |
|-------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| Density · DIN EN ISO 2811-1 · +20 °C      | Approx. 1.35 g/cm <sup>3</sup> * <sup>1</sup> | Approx. 1.05 g/cm <sup>3</sup> * <sup>2</sup> | Approx. 1.30 g/cm <sup>3</sup> * <sup>2</sup> |
| VOC content · IE Directive 2010/75/EU     | Approx. 392 g/l * <sup>1</sup>                | Approx. 478 g/l * <sup>2</sup>                | Approx. 409 g/l * <sup>2</sup>                |
| Solid content (wt.-%) · SDS               | Approx. 73.4 % * <sup>1</sup>                 | Approx. 54.1 % * <sup>2</sup>                 | Approx. 70.2 % * <sup>2</sup>                 |
| Flow viscosity · DIN EN ISO 2431 · +20 °C | Thixotropic                                   | Approx. 12 s (4 mm) * <sup>2</sup>            | Depending on application method               |

\*<sup>1</sup> Depending on color shade    \*<sup>2</sup> Values for comp. B and mixture with Superdur HS Hardener 7D701 (standard hardener)

## SUPERDUR HS INDUSTRY TOPCOAT 6D830-30

Series 6D830-30 · Matt, high-build 2K PU acrylic topcoat with long open time for interior and exterior



### 03 APPLICATION

The following information may vary depending on the application. Please contact your direct contact person for more detailed information.

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Substrate            | Primed or filled and sanded surfaces                                                                                                                                                                                                                                                                                                                                                                                                           |
| Surface preparation  | The substrates must be dry, clean and free from oil, dust, scale and other contaminants.                                                                                                                                                                                                                                                                                                                                                       |
| Mixing ratio         | With 7D701/7D700/7D702 (airless): 5 : 1 by weight or 4 : 1 by volume   with 7D703 (brush/roller): 10 : 1 by weight or 8 : 1 by volume                                                                                                                                                                                                                                                                                                          |
| Mixing               | Add the hardener component completely to the base component and mix intensively with an electric stirrer for approx. 1 min. Then add the thinner and mix intensively again for approx. 1 min.                                                                                                                                                                                                                                                  |
| Theoretical coverage | Approx. 8–9 m <sup>2</sup> /kg at 50 µm dry film thickness (with Superdur HS Hardener 7D701)                                                                                                                                                                                                                                                                                                                                                   |
| Film thickness       | Approx. 50–60 µm dry film thickness                                                                                                                                                                                                                                                                                                                                                                                                            |
| Application method   | <div>  Spraying  Rolling  Brushing </div> <p>Brushing/rolling only with Superdur HS Hardener 7D703 (e.g. mohair, pile, smooth felt, Rolloplan); foam rollers are not recommended.</p> |

#### SPRAY PARAMETERS BY APPLICATION METHOD

| Parameter                           | Gravity / suction cup | HVLP      | Airless   | Airmix (pressure pot / feed pump) |
|-------------------------------------|-----------------------|-----------|-----------|-----------------------------------|
| Thinner addition                    | 10–15 %               | 10–15 %   | 0–5 %     | 10–15 %                           |
| Spray viscosity (DIN 4 mm / +20 °C) | 20–24 s               | 20–24 s   | 30–35 s   | 20–24 s                           |
| Recommended spray nozzles           | 1.2–1.6               | 1.3–1.4   | 0.23–0.28 | 0.9–1.1                           |
| Recommended atomizing pressure      | 3–5 bar               | 2.5–3 bar | 3 bar     | 2.5–3.5 bar                       |
| Material pressure                   | n/a                   | n/a       | 120 bar   | 1.0–1.5 bar                       |
| Spray passes                        | 2–4                   | 2–4       | 1         | 2–4                               |

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application conditions |  <b>Application temperature</b> +15 °C to +30 °C<br> <b>Relative humidity</b> 30–85 %<br> <b>Dew point</b> Object temperature min. 3 °C above dew point |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### DRYING<sup>\*)</sup>

|                        |                                                                                               |
|------------------------|-----------------------------------------------------------------------------------------------|
| Dust-dry (TG 1)        | Depending on hardener 15–120 min                                                              |
| Tack-free (TG 3–4)     | Depending on hardener 2–10 h                                                                  |
| Assembly-firm (TG 5–6) | Depending on hardener 12–24 h                                                                 |
| Fully cured            | Approx. 7 days                                                                                |
| Forced drying          | Flash-off before oven drying 10 min at +20 °C · object temperature 60 °C · drying time 30 min |

<sup>\*)</sup> Values are based on laboratory measurements at +20 °C; pot life and drying additionally depend on the hardener used. Lower temperatures slow down drying; higher temperatures accelerate it.

## SUPERDUR HS INDUSTRY TOPCOAT 6D830-30

Series 6D830-30 · Matt, high-build 2K PU acrylic topcoat with long open time for interior and exterior



### 04 NOTE

This product data sheet supersedes all previously published product data sheets. The information contained herein is based on practical experience under standard conditions and assumes proper storage and processing. Substrates, materials and working conditions may vary. Therefore, no warranty or liability can be derived from the information contained in this document or from verbal consultation. It is the buyer's responsibility to verify the product's suitability for the intended use. Preliminary trials are recommended. The relevant legal regulations, the leaflets of the BG RCI and the accident prevention regulations of the responsible employers' liability insurance association must be observed. In all other respects, our General Terms and Conditions of Sale and Delivery apply.

#### MODIFIED BY

02.09.2026 – Martin Krull, Head of Laboratory

#### APPROVED BY

02.09.2026 – Stefan Eisenmenger, Product Management