

SUPERDUR TOP STRUCTURE LACQUER 6D840-Gloss

Series 6D840-Gloss · 2K PU acrylic structure lacquer for machinery, components and structures, interior and exterior



01 PRODUCT DESCRIPTION

Superdur Top Structure Lacquer 6D840-Gloss is a high-quality 2K polyurethane-acrylic structure lacquer for the industrial coating of machinery, components, structures, steel cabinets and tools, both interior and exterior. The decorative textured surface conceals minor unevenness and gives the components a high-quality, uniform appearance. The lacquer is available in matt or satin gloss, is silicone-free and can be applied electrostatically. It is characterized by high UV and weather resistance, good resistance to fuels and oils and a scratch-resistant, durable surface, and is suited to long-lasting applications under demanding conditions.

02 PRODUCT PROPERTIES

Binder system	Polyurethane-acrylic system
Hardener system	Superdur Structure Lacquer Hardener 7D704
Adjustment thinner	Superdur Thinner 5D402 / 5D411
Cleaning thinner	Superdur Thinner 5D402 / 5D411
Characteristics	     Electrostatic application UV & weather resistant Fuel- & oil resistant Scratchresistant Silicone-free
Color shade	Various RAL color shades (on request)
Gloss	Approx. 25 GU or 75 GU (60°) · DIN EN ISO 2813 (matt or satin gloss)
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 * ¹	Approx. 1.23 g/cm ³	Approx. 1.05 g/cm ³	Approx. 1.20 g/cm ³
VOC content · IE Directive 2010/75/EU * ¹	Approx. 395 g/l	Approx. 357 g/l	Approx. 388 g/l
Solid content (wt.-%) · SDS * ¹	Approx. 68.0 %	Approx. 66.0 %	Approx. 67.7 %
Flow viscosity · DIN EN ISO 2431 · +20 °C	Thixotropic	Approx. 20 s (4 mm)	–

*¹ The value refers to colorless material and varies depending on color shade and gloss level.

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03 APPLICATION

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

Substrate	Steel, aluminium, galvanized steel
Surface preparation	The substrates must be dry, clean and free from grease, oil, dust, scale and other contaminants. Due to the variety of substrates and their manufacturing processes, a preliminary test should be carried out on the respective substrate to ensure proper adhesion; observe the manufacturer's instructions for surface preparation.
Mixing ratio	5 : 1 by weight 4 : 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 *1	Approx. 6.5–7.0 m ² /kg at 50 µm dry film thickness
Film thickness	Approx. 60 µm dry film thickness (recommended)
Application method	 Spraying Application by gravity/suction cup gun, HVLP, airless/airmix or pressure pot and feed pump (see spray parameters).

SPRAY PARAMETERS BY APPLICATION METHOD

Parameter	Gravity / suction cup	HVLP	Airless / airmix	Pressure pot / feed pump
Thinner addition	Depends on structure	Depends on structure	Depends on structure	Depends on structure
Spray viscosity (DIN 4 mm / +20 °C)	Depends on structure	Depends on structure	Depends on structure	Depends on structure
Recommended spray nozzles	2.5–3.0	2.0–3.0	from 0.41	1.0–2.0
Recommended atomizing pressure	4–5 bar	2.5–3 bar	3 bar	2.5–3.5 bar
Material pressure	n/a	n/a	120 bar	1.0–2.0 bar
Spray passes	2	1	2	2

Application conditions	 Application temperature +10 °C to +30 °C  Relative humidity max. 80 %
Pot life*2	Approx. 1–2 h

DRYING*2

Dust-dry (TG 1)	Approx. 25–30 min
Tack-free / handling-dry	Approx. 5–6 h
Assembly-firm	Approx. 24 h
Fully load-bearing	Approx. 7 days

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Forced drying

Flash-off before oven drying 10 min · object temperature 60 °C · drying time 30 min

^{*)} Values are based on laboratory measurements at +20 °C. Lower temperatures slow down drying; higher temperatures accelerate it.

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

26.08.2026 – Martin Krull, Head of Laboratory

APPROVED BY

26.08.2026 – Stefan Eisenmenger, Product Management