Bergopur-MS-Einschichtlack 6D789

Series 6D789 · Solvent-borne 2K PUR single-coat topcoat for steel (DTM)

01 PRODUCT DESCRIPTION

Bergopur-MS-Einschichtlack 6D789 is a solvent-borne, high-build two-component polyurethane topcoat with good weathering resistance and effective corrosion protection. The product is designed for use on gas tanks, components of construction and agricultural machinery and other blast-cleaned steel surfaces. The coating can be applied directly to metal (DTM) as a single-coat system, enabling efficient and economical application. It features high sag resistance, allowing higher film thicknesses to be applied without running while achieving a uniform and durable paint film. Thanks to its balanced combination of protective properties and easy application, the system is particularly suitable for demanding industrial environments where both performance and application efficiency are required.

02 PRODUCT PROPERTIES

Binder system	Polyacrylate
Hardener system	Bergolin PUR Hardener 7D054
Adjustment thinner	Superdur Thinner 5D402 / 5D411
Cleaning thinner	Superdur Thinner 5D402 / 5D411
Characteristics	Good corrosion protection · Weather-resistant · Direct-toMetal · Single-coat · High sag resistance
Color shade	RAL 7035 (further color shades on request)
Gloss	Matt, satin to glossy
Shelf life	12 months in the unopened original container at +4 °C to +40 °C; protect from frost and moisture.
Chemical resistance	Media on request
Thermal resistance	Up to approx. +120 °C (dry heat), briefly approx. +150 °C | up to approx. +40 °C (moist heat and water). Yellowing possible above +80 °C.
Approvals and specifications	Externally tested according to DIN EN ISO 12944-6 for C4-H

Property	Comp. A	Comp. B	Mixture
Density · DIN EN ISO 2811-1 · +20 °C *1	Approx. 1.20 g/cm³	Approx. 1.06 g/cm³	Approx. 1.14 g/cm³
VOC content · IE Directive 2010/75/EU *1	Approx. 400 g/l	Approx. 265 g/l	Approx. 380 g/l
Solid content (wt.-%) · SDS *1	Approx. 66 %	Approx. 75 %	Approx. 65 %
Viscosity · DIN EN ISO 2431 · +20 °C *1	Approx. 45–50 s (6 mm)	Approx. 32–42 s (4 mm)	Approx. 30–38 s (6 mm)

*1 *Depending on color shade*

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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 (further substrates on request)
Surface preparation	Ensure sufficient load-bearing capacity before application. **Steel:** Surface preparation to EN ISO 12944-4. Free from weld spatter, pores, overlaps, burrs, grease, oil and dirt. Blast-clean to Sa 2½, mean roughness Rz approx. 50–70 µm (G or operating mix GS). **Optional** primer: 1 × 50 µm 2C-Epex-Hydro-Primer (3E602), consumption approx. 140 g/m² at 50 µm DFT.
Mixing ratio	8 : 1 by weight | 7 : 1 by volume
Mixing	Stir both components separately and homogenise if necessary. Pour component B into the container of component A and mix with an electric stirrer for at least 3 min at max. 700 rpm. Transfer into a clean container and mix again thoroughly for approx. 1 min.
Theoretical consumption	170 g/m² per 100 µm WFT | 250 g/m² per 100 µm DFT
Application method	Brush / block brush · Roller · Airless / Airmix spray
Application conditions	**Air temperature** +10 °C to +30 °C **Relative humidity** max. 80 % **Dew point** min. 3 °C below surface temperature
Working time	Approx. 90 min at +20 °C | approx. 60 min at +30 °C
Recoating interval (with itself)[*2]	Min. 12 h | max. 48 h. After the maximum recoating time has elapsed, mechanical surface preparation (e.g. sanding or sweep-blasting) is required.
DRYING	
Dust-dry (TG 1)	Approx. 1 h at +20 °C | approx. 90 min at +10 °C
Lightly loadable	Approx. 24 h at +20 °C | approx. 48 h at +10 °C
Fully cured (mech. & chem.)	Approx. 7 days at +20 °C | approx. 14 days at +10 °C
Compatible systems	Primer: Epex zinc dust (3E750) Primer: 2C-Epex-Hydro-Primer (3E602) Further applications on request.

[*2] *Values are based on laboratory measurements at +20 °C. Lower temperatures slow down drying; higher temperatures accelerate it.*

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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
03.11.2026 – Martin Krull, Head of Laboratory

APPROVED BY
03.11.2026 – Stefan Eisenmenger, Product Management