EXOSHIELD 900 FG · 6D900 FG

Series 6D900 FG · Solvent-free 2K PUR high-build coating for bulk goods wagons, silos and conveying equipment in the feed and food industry

01 PRODUCT DESCRIPTION

ExoShield 900 FG, white is a solvent-free two-component polyurethane liquid plastic for high-build corrosion protection of bulk goods wagons, silos and conveying equipment in the animal feed and food industry. The coating is abrasion-resistant and mechanically highly durable, so that it permanently withstands the stress caused by flowing bulk materials. It is suitable for contact with dry foodstuffs such as grain and can be repaired and overcoated if required.

02 PRODUCT PROPERTIES

Binder system	Polyurethane
Hardener system	Bergolin Hardener 7D1100
Cleaning thinner	Superdur Thinner 5D402
Characteristics	Abrasion-resistant · Mechanically resistant · Solvent-free · For dry foodstuffs
Color shade	Approx. RAL 9010 (further shades on request)
Gloss	Glossy
Shelf life	Comp. A approx. 12 months, comp. B approx. 6 months in the unopened original container at +4 °C to +40 °C. Protect from frost and moisture.
Mechanical resistance	Shore D 60 | abrasion ASTM D 4060: 400 mg (H18/1000 g/1000 rev.), 480 mg (H22/1000 g/1000 rev.)
Chemical resistance	Permanently resistant to fresh water, salt water and household cleaners (further media on request)
Electrical resistance	Approx. > 10 GΩ (at 1,000 µm)

Property	Comp. A	Comp. B	Mixture
Density · DIN EN ISO 2811-1 · +20 °C *¹	Approx. 1.28 g/cm³	Approx. 1.23 g/cm³	Approx. 1.28 g/cm³
VOC content · IE Directive 2010/75/EU *¹	Approx. 0 g/l	Approx. 0 g/l	Approx. 0 g/l
Solid content (wt.-%) · SDS *¹	Approx. 100 %	Approx. 100 %	Approx. 100 %
Viscosity · DIN EN ISO 2555 / ISO 2431 · +20 °C *¹	Approx. 20,000 mPas	Approx. 35 s (4 mm)	Approx. 8,000 mPas

*¹ *Depending on colour 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, zinc/aluminium, cement concrete/screed (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). Primer: 1 × 60 µm Superdur Unigrund, consumption approx. 174 g/m² at 60 µm DFT. **Zinc/aluminium:** Clean and sweep-blast. Primer: 1 × 30 µm Tenaxon T 569, consumption approx. 100 g/m² at 30 µm DFT. **Cement concrete/screed:** Surfaces must be firm, clean, free from grease, oil, wax, sand, dust and release agents, with good grip, load-bearing and free from standing water. **Optional** primer: Steopox 220, consumption approx. 300–500 g/m² depending on absorbency; if required, broadcast with kiln-dried quartz sand 0.1–0.3 mm.
Mixing ratio	100 : 40 by weight
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	Approx. 128 g/m² per 100 µm wet or dry film thickness
Film thickness	Max. 1,000 µm dry film thickness
Application method	Airless spraying
Application conditions	**Air temperature** > 0 °C **Relative humidity** Max. 75 % **Surface temperature** Min. +5 °C **Dew point** Min. 3 °C below surface temperature
Pot life[*2]	Approx. 40 min
Working time[*2]	Approx. 20 min
Recoating interval (with itself)[*2]	Max. 72 h. After the maximum recoating time has elapsed, mechanical surface preparation (e.g. sanding or sweep-blasting) is required.
Compatible systems	Primer: Superdur Unigrund (3D800) Primer: Tenaxon T 569 (3E569) Primer: Steopox 220 (2E220) Further applications on request.

[*2] *Values are based on laboratory measurements at +20 °C. Lower temperatures slow down curing; 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
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APPROVED BY
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