STEOPOX 258 JGS 6E258

Series 6E258 · Solvent-free, crack-bridging 2K epoxy system for JGS storage tanks and biogas plants

01 PRODUCT DESCRIPTION

STEOPOX 258 JGS 6E258 is a solvent-free, non-conductive and crack-bridging two-component coating system for the internal conservation of storage tanks filled with liquid manure, slurry and silage effluent (JGS). The system is resistant to all chemicals occurring in biogas plants and provides durable protection of steel, zinc/aluminium and reinforced concrete tanks against corrosive and chemical attack. Thanks to its crack-bridging capability, the coating compensates for substrate movement and remains permanently tight. It is repairable, recoatable and suitable for spray application, enabling economical new coating and refurbishment of agricultural storage facilities.

02 PRODUCT PROPERTIES

Binder system	Epoxy resin
Hardener system	Bergolin EP Hardener 7E258, brown
Cleaning thinner	EP Thinner 5E403
Characteristics	Crackbridging · Solvent-free · Repairable & recoatable · Sprayable
Color shade	Approx. RAL 7032 (further color shades on request)
Gloss	Glossy
Shelf life	Components A and B 12 months each in the unopened original container at +4 °C to +40 °C. Protect from frost and moisture.
Mechanical resistance	Shore D 70 | abrasion resistance to ASTM D 4060: 33 mg/100 rev. (CS10 / 1000 g)
Chemical resistance	Liquid manure, slurry, silage effluent and all chemicals occurring in biogas plants (further media on request)
Thermal resistance	Up to approx. +100 °C (dry heat), briefly approx. +130 °C | up to approx. +50 °C (moist heat and water)
Electrical resistance	Non-conductive
Container size comp. A	10.0 kg
Container size comp. B	2.2 kg

Property	Comp. A	Comp. B	Mixture
Density · DIN EN ISO 2811-1 · +20 °C	Approx. 1.40 g/cm³	Approx. 1.02 g/cm³	Approx. 1.32 g/cm³
VOC content · IE Directive 2010/75/EU	Approx. 0 g/l	Approx. 8.59 g/l	Approx. 1.98 g/l
Solid content (wt.-%) · SDS	Approx. 99.00 %	Approx. 89.46 %	Approx. 97.28 %
Viscosity · DIN EN ISO 2555 · +20 °C	Approx. 5,000 mPas	Approx. 2,000 mPas	Approx. 3,500 mPas

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*1 *Depending on color shade*

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, reinforced concrete (further substrates on request)
Surface preparation	Ensure sufficient load-bearing capacity before application. **Steel:** Surface preparation to EN ISO 12944-4. Free of weld spatter, pores, laps, burrs, grease, oils and dirt. Blast-clean to Sa 2½, mean roughness Rz approx. 50–70 µm (G or operating mix GS). Primer: 1 × 30 µm Tenaxon T 569 (3E569), approx. 100 g/m² at 30 µm DFT. **Zinc/aluminium:** Clean and sweep-blast. Primer: 1 × 30 µm Tenaxon T 569 (3E569), approx. 100 g/m² at 30 µm DFT. **Reinforced concrete:** For new coatings apply directly onto the prepared substrate; if required, optional scratch-filling (reprofiling) with STEOPOX 258 JGS adding max. 2 % thickening agent (8R0249). For old coatings, clean with a high-pressure cleaner (max. 80 bar) and reprofile spalled areas.
Mixing ratio	100 : 22 by weight | 100 : 30 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	132 g/m² per 100 µm WFT | 132 g/m² per 100 µm DFT
Film thickness	Max. 1,000 µm DFT | max. 500 µm WFT per coat
Application method	Brush / float coater · Airless spray · Trowel
Application conditions	**Air temperature** +8 °C to +30 °C **Relative humidity** max. 85 % **Dew point** min. 3 °C below surface temperature For airless spraying: material and equipment temperature +20 °C to +25 °C.
Pot life[*2]	Approx. 60 min
Working time[*2]	Approx. 30 min
Recoating interval (with itself)[*2]	Min. 16 h | max. 72 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. 6 h
Walkable / sandable	Approx. 16 h
Fully cured (mech. & chem.)	Approx. 3 days (+20 °C) | 7 days (+10 °C)

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Compatible systems	Primer steel and zinc/aluminium: Tenaxon T 569 (3E569) Further applications on request.

*[*2] 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
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APPROVED BY
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