BERGOLIN-HS-GRUNDIERUNG 3D810

Series 3D810 · Solvent-borne 2K high-solid primer (polyacrylate) with excellent corrosion protection for steel

01 PRODUCT DESCRIPTION

Bergolin-HS-Grundierung 3D810, light grey is a solvent-borne two-component high-solid primer based on polyacrylate with excellent corrosion protection for steel. Its high solid content enables an economical application process at low VOC content and forms an easily overcoatable basis within the coating system. The primer can be applied evenly and at high film build by spray and dries quickly, allowing short cycle times and rapid further processing. Combined with the matching Bergolin topcoats, it forms a high-performance corrosion-protection system for demanding steel structures.

02 PRODUCT PROPERTIES

Binder system	Polyacrylate
Hardener system	Superdur HS Hardener 7D701
Adjustment thinner	0–5 % Bergolin Thinner 5D402
Cleaning thinner	Bergolin Thinner 5D402
Characteristics	Corrosion protection · Low VOC · High solid content
Color shade	Light grey
Gloss	Matt
Shelf life	Approx. 12 months (components A and B) 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. 1.55 g/cm³	Approx. 1.04 g/cm³	Approx. 1.48 g/cm³
VOC content · IE Directive 2010/75/EU	Approx. 352 g/l	Approx. 478 g/l	Approx. 368 g/l
Solid content (wt.-%) · SDS	Approx. 77 %	Approx. 54 %	Approx. 75 %
Flow viscosity · DIN EN ISO 2431 · +20 °C	Approx. 80 s (6 mm)	Approx. 12 s (4 mm)	Approx. 30 s (4 mm)

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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, abraded or blast-cleaned to Sa 2½ (further substrates on request)
Surface preparation	Ensure sufficient load-bearing capacity before application. **Steel:** Surface preparation to EN ISO 12944-4; abraded or blast-cleaned to Sa 2½. The substrate must be dry, clean and free from grease, oil, dust, scale and other contaminants.
Mixing ratio	10 : 1 by weight | 6.5 : 1 by volume
Mixing	Add the hardener component completely to the base component and mix intensively for approx. 1 minute with an electric or pneumatic stirrer. Then add the thinner and mix intensively again for approx. 1 minute.
Theoretical consumption	Approx. 140 g/m² at 50 µm dry film thickness
Application method	Gravity cup gun Airmix
Application conditions	**Application temperature** +15 °C to +30 °C **Relative humidity** 30–75 %
Pot life[*1]	Approx. 6 h
Recoating interval (with itself)[*1]	Min. 2 h (at 100–150 µm wet film thickness; testing recommended)
DRYING[*1]	
Dust-dry (TG 1)	Approx. 0.5 h
Grip-firm (TG 2)	Approx. 2 h
Tack-free (TG 3)	Approx. 3 h
Through-dried (TG 7)	Approx. 20 h
Fully load-bearing (mech. & chem.)	After full curing, approx. 7 days
Compatible systems	Bergolin LS Topcoat 6D3400 Bergolin HS Topcoat 6D3500

[*1] *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.

GEÄNDERT VON

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