

Technical Data Sheet

HENSOGRUND WB Green



Water based, single pack acrylic primer for structural steel members derusted by hand, galvanised or blasted (except for cast iron columns)

SUBSTRATES / PROPERTIES

Substrates: **Steel** (Sa 2 ½, St 3, PSt 3), **galvanised steel**

- Non-VOC, VOC < 1 g/m² at nominal stratum thickness
- No labeling required
- Good penetration on steel surfaces derusted by hand
- Good adhesion on galvanised surfaces

PRODUCT DATA

HENSOGRUND WB Green

Colour: light grey, matt | **Packaging:** 5 kg, 10 kg and 20 kg in one-way pails

Preparation: Stir well before use!

Thinning and/or Cleaning with water

Shelf life: 12 months in unopened original pails at ambient temperatures in dry conditions

HENSOGRUND WB Green / Reference values (theoretical values without losses)

Specific gravity (g/ml) 1.17	Coverage rate (m ² /kg) 5.7	Volume solid (%) 42
Consumption rate (kg/m ²) 0.175	Wet film thickness (µm) 150	Dry film thickness (µm) 60

APPLICATION INSTRUCTIONS

Recommendation at temperatures of approx +20 °C



Airless



Roller / Brush

Nozzle size (inch)	0.009	-
Operation pressure (bar)	120–150	-
DFT* per layer (µm)	80	60–80
Thinning (%)	0–3	0

*DFT = Dry film thickness

Drying time at 60 µm DFT	Ambient temperature +20 °C
Dust dry: Ready for overcoating: Ready for overcoating with HENSOTHERM®:	after approx 60 minutes after approx 24 hours after 24 hours
Each layer must be dried through (fingernail test positive) before the next application!	

APPLICATION INSTRUCTIONS

Surface preparation

Galvanised surfaces

- Galvanised components must be tempered (heated), acc. to DIN EN ISO 12944-4, before coating with HENSOGRUND WB Green (Blistering!)
- Surfaces has to be cleaned to remove contamination and to ensure adhesion
- Sweep blasting or efficient to washing with solvents and cleaning by high-pressure are recommended according the degree of pollution
- Surface preparation should be carried out according to good painting practises - DIN EN ISO 12944-4

Steel and cast iron surfaces

- Blasting to surface preparation level Sa 2.5 according to DIN EN ISO 12944-4, surface roughness medium (G) according to DIN EN ISO 8503-1
- If sand blasting is not possible, than mechanical preparation St 3, metallicly bright
- Remove all bond damaging substances by e.g. cleaning, washing
- Manual rust removal of rusted surfaces e.g. with a wire brush or prepared by machine (minimum requirement PSt 3 / St 3) or sweep blasting
- The coverage rate does not consider the correction factor for rough surfaces according to ISO 19840.

Before overcoating with HENSOTHERM®

Before the application of the HENSOTHERM® fire protection coating all bond damaging substances shall be removed completely.

Note: For dry film thicknesses (DFT) $\geq 80 \mu\text{m}$ (max 160 μm) and low temperatures, the drying time may be exceeded up to a minimum of 7 days (!) before overcoating with HENSOTHERM®.



Air and surface temperatures: The temperature of the steel surface and the ambient temperature must remain between +15 °C up to +25 °C during the coating procedure. Not below +10 °C or above +30 °C! During the application, the surface temperature of the coated part must be at least +3 °C above the dew point of the ambient temperature!



Relative humidity max. 80 %

COATING SYSTEMS

	Products
Primer	HENSOGRUND WB Green
Fire protection coating	HENSOTHERM® 410 KS, HENSOTHERM® 421 KS, HENSOTHERM® 471 KS
Top coats depending on the system	HENSOTOP SB, HENSOTOP WB Green, HENSOTOP 2K PU (in RAL, DB, NCS colour shades or in individual colour shades available)

PRECAUTIONS FOR SAFETY USE



Use HENSOTHERM® WB Green in accordance with all applicable local and national regulations.
Giscode: BS10

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