

Technical Data Sheet

## HENSOGRUND 2K EP

Two-pack primer based on epoxy resin  
for HENSOTHERM® fire protection coating systems for steel up to C5

### PROPERTIES

- Mechanical resistant
- Good bonding strength on steel surfaces and cast steel
- No classification acc. to GHS ,toxic to aquatic life with long lasting effects'
- Fast hardening
- Excellent anti-corrosive properties due to innovative active pigmentation
- Corrosion protection documents of internal testings are available
- Corrosion category C2 up to C5 in combination possible; please ask for consumption values

### PRODUCT DATA

#### HENSOGRUND 2K EP

**Colour:** light grey, matt | **Packaging:** 11 kg base + 2.2kg hardener or 22 kg base + 4.4 kg hardener

**Mixing ratio (weight):** 5:1 with hardener

**Thinning and/or Cleaning** with HENSOTHERM® V22

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

#### HENSOGRUND 2K EP / Guide values (theoretical values without losses)

<b>Specific gravity (g/ml)</b> 1.5	<b>Coverage (m<sup>2</sup>/kg)</b> 4.2	<b>Volume solid (%)</b> 55
<b>Consumption (kg/m<sup>2</sup>)</b> 0.240	<b>Wet film thickness (µm)</b> 150	<b>Dry film thickness (µm)</b> 80

### INSTRUCTIONS FOR APPLICATION

Recommendation at temperatures of approx +20 °C



Airless



Roller / Brush

<b>Nozzle size (inch)</b>	<b>0.013</b>	-
<b>Operation pressure (bar)</b>	<b>150–250</b>	-
<b>DFT* per operation (µm)</b>	<b>80</b>	<b>60–80</b>
<b>Thinning (%)</b>	<b>0–3</b>	<b>0</b>

\* DFT = Dry film thickness



#### Application time

5.5 hours (referred to +10 °C), 4 hours (referred to +20 °C), 1.5 hours (referred to +30 °C)

Curing time at 60 µm DFT		Ambient temperature +20 °C
	Dust dry:	after approx 45 minutes
	Ready for overcoating:	after approx 8 hours
	Ready for overcoating with HENSOTHERM®:	after 24 hours
	Ready for overcoating with HENSOTHERM® 2K PU:	after 24 hours

## INSTRUCTIONS FOR APPLICATION

### Surface preparation

#### Steel surfaces and cast iron columns

- Sand blasting to 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, surface roughness must exist
- Remove all bond damaging substances by e.g. cleaning, washing
- For cast iron surfaces two applications with a minimum of 60 µm dry film thickness are necessary

#### Before overcoating with HENSOTHERM®

Before the application of the HENSOTHERM® fire protection coating all bond damaging substances has to be completely removed. For a later use outdoors and/or in areas with increased moisture bond damaging substances has to be completely removed by sweep blasting; after sweep blasting adjustment of the dry film thickness if required

**Note:** Maximum overcoating interval with HENSOTHERM®: 3 months

Please contact our Technical Support if the overcoating intervall is longer.

#### Preparation of the coating substances

Using an electric agitator, stir thoroughly the component A (base). While stirring, add the component B (hardener) in the specific mixing ratio and continue mixing until the compound becomes homogeneous. Then fill the compound in a clean pail and stir again thoroughly.



**Air and surface temperatures:** The temperature of the steel surface and the ambient temperature must remain between +10 °C up to +25 °C during the coating procedure. Not below +5 °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
<b>Primer</b>	HENSOGRUND 2K EP
<b>Fire protection coating</b>	HENSOTHERM® 410 KS, HENSOTHERM® 421 KS, HENSOTHERM® 310 KS, HENSOTHERM® 910 KS
<b>Top coats</b> depending on the system	HENSOTOP SB, HENSOTOP WB, HENSOTOP 2K PU (in RAL, DB, NCS colour shades or in individual colour shades available)

## PRECAUTIONS FOR SAFETY USE



Use HENSOTHERM® 2K EP in accordance with all applicable local and national regulations. **Giscode: RE 3**

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