

Technical Data Sheet

HENSOTOP 2K PU

Solvent-based, 2-pack top coat for HENSOTHERM® 310 KS rapid, HENSOTHERM® 410 KS, HENSOTHERM® 421 KS, and HENSOTHERM® 920 KS fire protection coatings

SUBSTRATES / PROPERTIES

Substrates: HENSOTHERM® fire protection coatings on steel

- Solvent-based, 2-pack top coat
- Fast drying
- VOC 318 g/l, VOC 34 g/m at nominal stratum thickness
- Durable, mechanically resistant, high abrasion resistance
- Resistant to chemicals e.g. oils, fuels, salts, dilute acids

PRODUCT DATA

HENSOTOP 2K PU

Colour: RAL, DB, Sikkens or samples available

Gloss level: Silky matt (<30 gloss units at 60°) / The gloss level varies depending on the colour shade.

Packaging: Base 10 kg / hardener 1.7 kg in tin pails

Preparation: Stir well before use!

Thinning with HENSOTHERM® V 84 or V 45 max. 5% | **Cleaning** with HENSOTHERM® V 84 or V 45

Shelf life: Base 12 months and hardener 6 months in unopened original pails at ambient temperatures in dry conditions

HENSOTOP 2K PU / Reference values (theoretical values without losses)

Specific gravity (g/ml) 1.35	Coverage rate (m²/kg) 6.9	Mixing ratio (by weight) 100 : 17
Consumption rate (kg/m²) 0.145 (at 70 µm)	Wet film thickness (µm) 110	Dry film thickness (µm) 70–80

APPLICATION INSTRUCTIONS

Recommendation at temperatures of approx +20 °C



Airless



Roller / Brush

Nozzle size (inch)	0.011–0.013	–
Operation pressure (bar)	120–150	–
DFT* per layer (µm)	70–80	70–80
Thinning with thinner (%)	0–5	0

*DFT = Dry film thickness



Pot life

2.0 hours (referred to +10 °C), 1.5 hours (referred to +20 °C)

Drying time at 70 µm DFT	Ambient temperature +20 °C
 <p>Dust dry: Dry to handle:</p>	<p>after approx 4 hours after approx 6 hours</p>

APPLICATION INSTRUCTIONS

Use

HENSOTOP top coats offer the possibility of coloured design, protection against moisture and should be applied when the surfaces, during the usage, are exposed to environmental influences, regular cleaning and similar external influences. Do not apply the top coat before the HENSOTHERM® fire protection is fully dried! At the earliest after 24 hours and after a positive fingernail test.

- Material, substrate and ambient temperature $> +10^{\circ}\text{C}$
- Relative humidity $< 80\%$
- Application by brush, short pile velour or mohair paint roller or airless spraying.

Note:

- If HENSOTOP 2K PU must be applied out of different batches, mix both materials (of the same colour shade) together before application.
- Colour shades containing metallic pigments may change by thinning or by application by brush or roller.



Air and surface temperatures: The temperature of the steel surface and the ambient temperature must remain between $+15^{\circ}\text{C}$ up to $+25^{\circ}\text{C}$ during the coating procedure. Not below $+10^{\circ}\text{C}$ or above $+35^{\circ}\text{C}$! During the application and the drying, the surface temperature of the coated part must be at least $+5^{\circ}\text{C}$ above the dew point of the ambient temperature and up to a maximum temperature of $\leq +35^{\circ}\text{C}$!



Relative humidity max. 80 %

COATING SYSTEMS

Products

Primer	HENSOGRUND WB Green, HENSOGRUND 1K AK, HENSOGRUND 1966E, HENSOGRUND 2K, HENSOGRUND 2K EP
Fire protection coating	HENSOTHERM® 310 KS rapid, HENSOTHERM® 410 KS, HENSOTHERM® 421 KS, HENSOTHERM® 920 KS
Top coat	HENSOTOP 2K PU is available in RAL or DB colour shades and on request in individual colour shades.

GROUPS OF COLOUR SHADES (RAL)

Standard	white, 7016 , 7035, 9002
Group I	1001, 1013, 1014, 1015, 1019, 1020 / 4009 / 5007, 5008, 5009 , 5018 / 6000, 6003, 6006 , 6011, 6012 , 6013, 6014, 6015 , 6019, 6020 , 6027, 6028 , 6033, 6034 / 7000, 7001, 7002, 7003, 7004, 7005, 7006, 7008 , 7009, 7010, 7011, 7012, 7013, 7015, 7021, 7022 , 7023, 7024, 7026 , 7030, 7031 , 7032, 7033, 7034, 7036, 7037, 7038, 7039 , 7040, 7042, 7043 , 7044, 7045, 7046, 7047, 8000, 8002, 8004, 8015, 8016, 8017, 8019, 8022, 8024, 8025, 8028 / 9001, 9003, 9004 , 9010, 9011 , 9016, 9017 , 9018
Group II	1000 , 1011, 1024 / 3007, 3009, 3011 , 3012, 3015 / 4005 / 5000, 5001, 5002, 5004, 5005 , 5012, 5014, 5015, 5019, 5021, 5023 , 5024 / 6004, 6008, 6016 , 6017, 6021, 6022, 6025 , 6032 / 8001, 8003, 8007, 8008, 8011, 8012, 8014 / 9005 , 9006, 9007, DB 701, DB 702, DB 703
Group III	1002, 1012 / 2012 / 3005 , 3014, 3017, 3018, 3022, 3027, 3031 / 4001, 4003, 4007, 4008 / 5003, 5010, 5011, 5013, 5017, 5020, 5022 / 6001, 6002, 6005, 6007, 6009, 6010 , 6024, 6026, 6029 / 8023
Group IV	1003, 1005 / 2000, 2002 , 2009, 2011 / 3003, 3004, 3016 / 4004 , 4010
Group V	3020, DB 501, DB 502, DB 503, DB 510 , DB 601, DB 704, other DB tones on request
Special colour shades according Sikkens or samples available on request – minimum quantity 10 kg.	

PRECAUTIONS FOR SAFETY USE



Use HENSOTOP 2K PU in accordance with all applicable local and national regulations.
Giscode: PU50

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