



**HENSSEL**

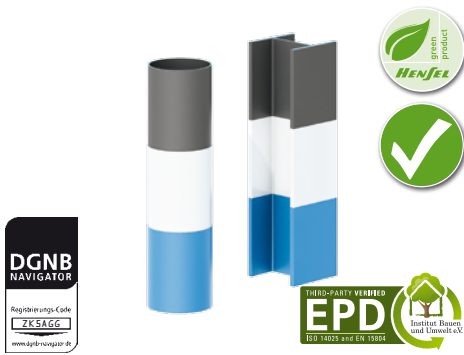
HENSOTHERM® | HENSOMASTIK®  
Fire Protection Systems





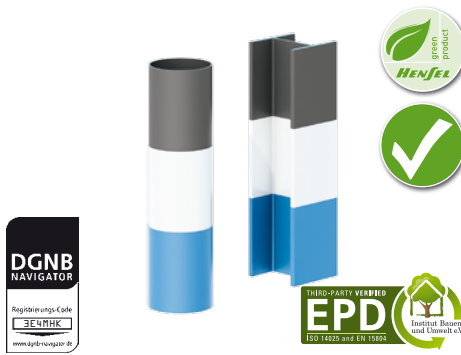
# FIRE PROTECTION SYSTEMS

## Structural Steel



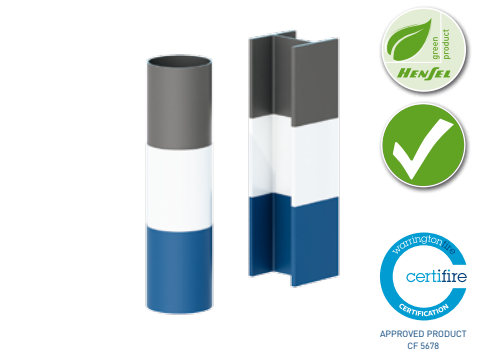
### HENSOTHERM® 410 KS R 30 – R 90

- Intumescent fire protection coating for indoor use
- Classified according to EN 13501-2 Giscode: M-DF01
- ETA-No. 20/1229
- CE-marking according to 93/68/EWG
- Monitored by independent third party institutes
- DGNB Navigator: ZK5AGG
- EPD-RHG-20190097-IAC1-DE
- Water-based coating systems, free from halogens, APEO, borates, fibres and plasticizers, Non-VOC according to ISO 11890-2, LEED
- Product is classified to VOC-emission class A+
- Assessed also for use on galvanized profiles
- High efficiency due to low material consumption/low coverage rates and fast drying times; maintenance-free
- 1c- and 2c-top coats available
- Packaging: 25 kg plastic pails



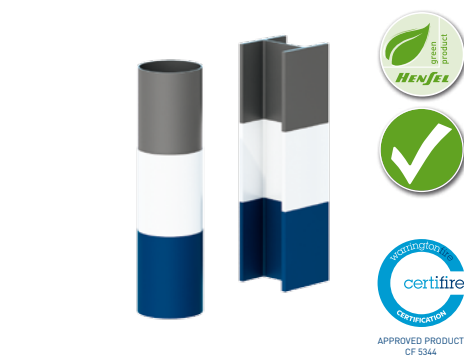
### HENSOTHERM® 421 KS R 90 – R 120

- Intumescent fire protection coating for indoor use
- Classified according to EN 13501-2 Giscode: M-DF01
- ETA-No.20/1228
- CE-marking according to 93/68/EWG
- Monitored by independent third party institutes
- DGNB Navigator: 3E4MHK
- EPD-RHG-20190097-IAC1-DE
- Water-based coating systems, free from halogens, APEO, borates, and plasticizers, Non-VOC according to ISO 11890-2, LEED v4 confirmed
- Product is classified to VOC-emission class A+
- Assessed also for use on galvanized profiles
- High efficiency due to low material consumption/low coverage rates and fast drying times; maintenance-free
- 1c- and 2c-top coats available
- Packaging: 25 kg plastic pails



### HENSOTHERM® 461 KS R 30 – R 90

- Intumescent fire protection coating for indoor use
- Tested according to BS 476 Giscode: M-DF01
- Certifire certificate No. CF 5678
- Monitored by independent third party institutes
- Water-based coating systems, free from halogens, APEO, borates, free from fibres and plasticizers, Non-VOC according to ISO 11890-2, LEED v4 confirmed
- Product is classified to VOC-emission class A+
- Suitable also for use on galvanized profiles
- High efficiency due to low material consumption/low coverage rates and fast drying times; maintenance-free
- 1c- and 2c-top coats available
- Packaging: 25 kg plastic pails



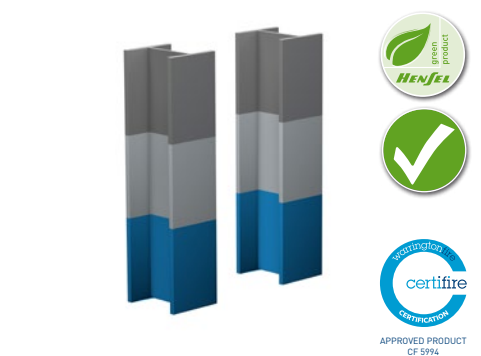
### HENSOTHERM® 471 KS R 15 – R 180

- Intumescent fire protection coating for indoor use
- Tested according to BS 476 Giscode: M-DF01
- Certifire certificate No. CF 5344
- Monitored by independent third party institutes
- Water-based coating systems, free from halogens, APEO, borates, and plasticizers, Non-VOC according to ISO 11890-2, LEED v4
- Product is classified to VOC-emission class A+
- Suitable also for use on galvanized profiles
- High efficiency due to low material consumption/low coverage rates and fast drying times; maintenance-free
- 1c- and 2c-top coats available
- Packaging: 25 kg plastic pails



### HENSOTHERM® 490 KS

- Intumescent fire protection coating for indoor use and semi-exposed conditions
- Tested according to UL 263 Giscode: M-DF01
- UL online certification directory file: CDWZ.R27201
- Design NOs D987, N638, Y627, Y628
- Monitored by independent third party institutes
- EPD, UL No. 4787852008.101.1
- EPD, IBU No. EPD-RHG-20160139-IAA1-EN
- Water-based coating system, free from halogens, APEO, borates and plasticizers, Non-VOC according to ISO 11890-2, LEED confirmed
- Fire resistance rates up to 5.5 hours on open steel profiles and 3.5 hours on hollow sections
- Suitable also for use on galvanized profiles
- High efficiency due to low material consumption/low coverage rates and fast drying times; maintenance-free
- Smooth surface due to low coating thicknesses
- Suitable also for shop application
- Packaging: 25 kg plastic pails



### HENSOTHERM® 920 KS R 30 – R 120

- Approved according to EN 13501-2 Giscode: RE 1
- Classified according to BS 476, Certifire No. CF 5994
- Tested acc. to ETA No. 21/0475
- Environmental product declaration: applied for
- Application area: for indoor and outdoor use on open and hollow sections
- Assessed also for use on galvanized profiles
- Low-VOC, free of halogens, free of alkylphenol and benzyl alcohol
- 100% solvent free 2c epoxy fire protection coating
- 2c-top coat available
- Perfect solution for workshop coatings or on-site application

## Structural Steel



### HENSOTHERM® 310 KS HENSOTHERM® 370 KS

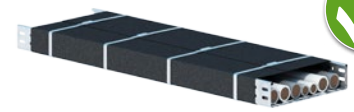
- Indoor and outdoor use
- Approved according to EN 13501-2 Giscode: BS60
- 310 KS: Tested according to ETA No. 11/0456
- 370 KS: Classified according to BS 476, Certifire No. CF 700
- I-sections and hollow sections, R30 – R 60 / R30 – R 120
- Assessed also for use on galvanized profiles
- Single pack thin film solvent-based
- Free from borates
- Top coat available in RAL or NCS colour shades and special shades on request

## Electrical Cables



### HENSOMASTIK® 5 KS Cables

- Ablative fire protection coating system for use on horizontal and vertical oriented electrical cables
- Authorization/certification: Test Report nkt cables, 2006-12-14, 90 min., MPRXCX > 3x4 mm² / DNV GL TAE00001K2, IEC 60331-21, IEC 60332-3 cat. A / FM Approvals project ID: 3018997
- Monitored by independent third party institutes
- DGNB Navigator: CDDWRA Giscode: M-DF01
- Water-based, impermeable to water according to DIN 1048, free from halogens, APEO, borates and plasticizers, Non-VOC according to ISO 11890-2, LEED confirmed
- Product is classified to VOC-emission class A+
- Resistant to mechanical stress, oil and petrol spills, ageing and after through drying temperature-resistant down to -40°C
- Also flexible in higher dry film thicknesses
- Packaging: 12,5 kg and 25 kg plastic pails



### HENSOTHERM® 7 KS Gewebe 1000

- Intumescent fire retardant fabric coated with HENSOTHERM® 7 KS for covering of horizontal oriented electrical cables, trays and holders
- ETA 16/0369
- Monitored by independent third party institutes
- Giscode: M-DF01
- Water-based, free from halogens, APEO, borates, fibres and plasticizers, Non-VOC according to ISO 11890-2, LEED confirmed
- Product is classified to VOC-emission class A+
- Area of application: covering horizontal oriented electrical cables, trays and holders
- Carrier material: glass filament fabric, non-flammable – A2
- Flexible for use in tightest windings
- Durability classes: X/Y2/Z1/Z2
- Fire resistance rate: up to 90 minutes

## Electrical Cables and Pipes



### HENSOTHERM® 7 KS viskos

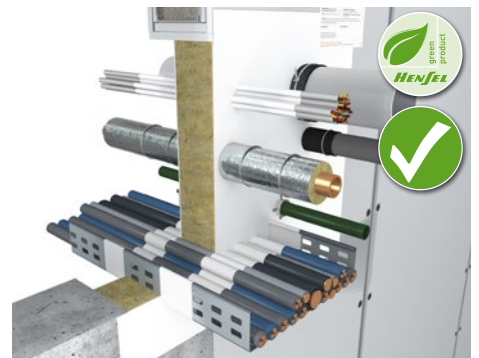
- Fire resistant intumescent acrylic compound designed to seal cables and non combustible pipes; expands in case of fire; indoor and outdoor use
- Tested according to EN 1366-3
- Monitored by independent third party institutes
- Giscode: M-DF01
- Water based, free from halogens, APEO, borates and plasticizers, non-VOC according to ISO 11890-2, LEED confirmed
- Product is classified to VOC-emission A+
- Area of application: seals gaps or openings for single conduits in solid concrete floors and walls and light-weight partition walls > 100mm thickness
- Colour: greyish black
- Easy to handle, can be overcoated
- Packaging: 310 ml cartridge, 600 ml tubular bag



### HENSOTHERM® 7 KS viskos for flexible pipes up to 240 minutes

- Approved according to EN 1366-3
- ETA: tested
- For indoor and outdoor use
- Designed to seal combustible and non-combustible pipes, electrical cable bundles and electric cables in flexible conduits
- Application areas:  
In solid walls ≥ 100 mm and ceilings ≥ 150 mm
- Fire resistant rate up to EI240
- Easy and fast installation
- Packaging: 310 ml cartridge, 600 ml tubular bag

## Penetration Seal Systems



### HENSOMASTIK® 5 KS Farbe for Mixed Penetration Seal System EI 60

- Ablative fire protection coating system for bulkheading penetrations of cables and pipes in walls and ceilings classified according to EN 13501-2 EI 60
- For indoor and outdoor use
- Tested in accordance to ETAG 026-2 / EN 1366-3
- ETA-No. 15/0294
- CE-marking according to 93/68/EWG
- Giscode: M-DF01
- Water-based, free from halogens, APEO, borates and plasticizers, Non-VOC according to ISO 11890-2, LEED confirmed
- Product is classified to VOC-emission class A+
- Packaging: 12,5 kg plastic pails

## Wooden Building Materials



### HENSOTHERM® 1 KS INNEN

- Intumescent transparent fire protection coating for indoor use
- Classifies solid wood and wooden materials as hardly combustible B1

- Classified according to EN 13501-1 B-s1, d0

- Monitored by independent third party institutes
- Giscode: M-KH01
- Synthetic resin, transparent

- Free from halogens, APEO, borates, fibres and plasticizers, free from formaldehyde, Non-VOC according to ISO 11890-2, LEED confirmed
- Product is classified to VOC-emission class A+

- Area of application: solid wood, thickness  $\geq 12$  mm / particle boards, thickness  $\geq 12$  mm / plywood for construction, thickness  $\geq 12$  mm
- Protect against mechanical stress
- Aromatics-free top coat, matt/silk-matt

- Packaging: 6 kg, 12,5 kg, 25 kg plastic pails

### HENSOTHERM® 2 KS INNEN weiss

- Intumescent fire protection coating / indoor use
- Classifies solid wood and wooden materials as hardly combustible B1

- Classified according to EN 13501-1 (SBI-test)

- Monitored by independent third party institutes
- Giscode: M-DF01
- Dispersion
- DGNB Navigator: PMX99N

- Free from halogens, APEO, borates, fibres and plasticizers, Non-VOC according to ISO 11890-2, LEED confirmed
- Product is classified to VOC-emission class A+

- Area of application: solid wood, thickness  $\geq 12$  mm / particle boards, thickness  $\geq 12$  mm / plywood for construction, thickness  $\geq 12$  mm
- Protect against mechanical stress
- Top coat, silk-matt; available in RAL or NCS colour shades and on request in individual colour shades

- Packaging: 6 kg, 12,5 kg, 25 kg plastic pails

### HENSOTHERM® 2 KS AUSSEN

- Ablative fire protection coating / outdoor use
- Classifies solid wood and wooden materials as hardly combustible

- Classified according to EN 13501-1 (SBI-test)

- Giscode: M-DF01
- Synthetic resin, light grey

- Free from organic solvents and plasticizers

- Area of application: on wood based or solid wood core boards and on wooden composite boards (usage category 3)
- Good adhesion, smooth surface
- Top coat available in RAL or NCS colour shades and on request in individual colour shades

- Packaging: 6 kg, 12,5 kg, 25 kg plastic pails

## Penetration Seal Systems



### HENSOMASTIK® 5 KS Farbe for Mixed Penetration Seal System EI 90 / EI 120

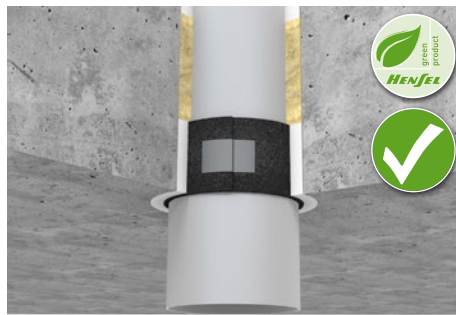
- Ablative fire protection coating system for bulkheading penetrations of cables and pipes in walls and ceilings classified according to EN 13501-2 EI 90 / EI 120
- For indoor and outdoor use

- Tested in accordance to ETAG 026-2 / EN 1366-3

- ETA-No. 15/0295
- CE-marking according to 93/68/EWG
- Monitored by independent third party institutes
- Giscode: M-DF01

- Water-based, free from halogens, APEO, borates and plasticizers, Non-VOC according to ISO 11890-2, LEED confirmed
- Product is classified to VOC-emission class A+

- Packaging: 12,5 kg plastic pails



### HENSOTHERM® 7 KS Gewebe 50

- Classified according to EN 13501-2 Giscode: M-DF01

- ETA No. 18/0417

- For indoor and outdoor use up to EI 240

- Intumescent pipe wrap (carrier material: glass filament fabric A2) for sealing for plastic and composite pipes up to  $\varnothing$  125 mm up

- Area of application: flexible walls, solid walls and solid floors

- Flexible; easy and fast installation; low space requirement due to low installation height

- Free of solvents, halogens and plasticisers



### HENSOTHERM® RM 50 pipe collar Fire protection solutions for single conduits

- Tested according to EN 1366-3

- ETA No. 19/0730

- For indoor and outdoor use

- Application areas: in walls up to EI 180 and in ceilings up to EI 240

- For combustible pipes with a diameter up to 160 mm

- Easy and fast installation



Sustainable and environmentally friendly



NO VOC-emissions



MINIMAL VOC-emissions

## Penetration Seal Systems



### HENSOTHERM® System for shaft walls Fire protection solutions for shaft walls

- ETA 18/0734 | UL ASSESSMENT REPORT project no.: 4788658260 Rev.1
- Tested up to fire resistance class EI 90
- Simple installation and assembly
- Low cost system
- Indoor and wet rooms
- Free of solvents and silicone, VOC emissions class A+

## Concrete Structural Elements



### HENSOMASTIK® B 3000 R 30-R 120

- Ablative fire protection coating
- Tested according to EN 13381-3:2015 Giscode: M-DF01
- Monitored by independent third party institutes
- Water-based, free from halogens, APEO, borates, fibres and plasticizers, Non-VOC according to ISO 11890-2, LEED confirmed
- Product is classified to VOC-emission class A+
- Indoor and outdoor use, in areas with high emission exposure e.g. underground car parks
- Fire protection coating system for concrete beams and columns (Exova WF-Report No. 339818), ripped concrete slabs on request
- Impermeable according to DIN 1048
- Resistant to oil and petrol spills
- Weatherproof/UV resistant according to DIN 53 384
- In combination with BETON-CARBONSPERRE protection against penetration of harmful substances
- Colour shade: white, approx. RAL 9010
- Packaging: 25 kg plastic pails



### HENSOTHERM® 820 KS R 30-R 240

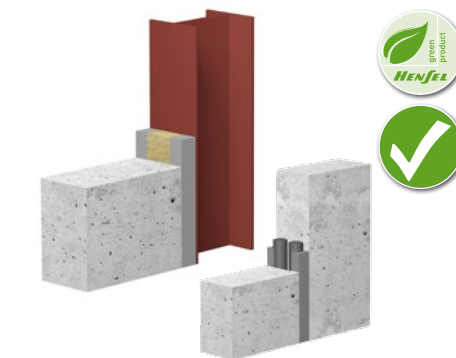
- Intumescent fire protection coating
- Tested according to EN 13381-3:2015 Giscode: M-DF01
- Monitored by independent third party institutes
- Water-based, free from halogens, APEO, borates, fibres and plasticizers, minimal VOC < 6 g/l, LEED confirmed
- Product is classified to VOC-emission class A+
- Indoor use only
- Fire protection coating system for concrete hollow core slabs (2012-Efectis-R0556 [Rev1]), concrete floors and walls (Exova WF-Report No. 339814), concrete beams and columns (Exova WF-Report No. 339816), ripped concrete slabs on request
- Warringtonfire EWCL Certificate No. ME 5119
- In combination with BETON-CARBONSPERRE protection against penetration of harmful substances
- Smooth surface
- High efficiency through low material consumption
- Easy to handle, maintenance-free
- No spalling by subsequently wall breakthroughs or installations
- Colour shade: white, approx. RAL 9010
- Packaging: 25 kg plastic pails

## Fire-resistant Joints



### HENSOMASTIK® 5 KS Farbe Joints | membrane

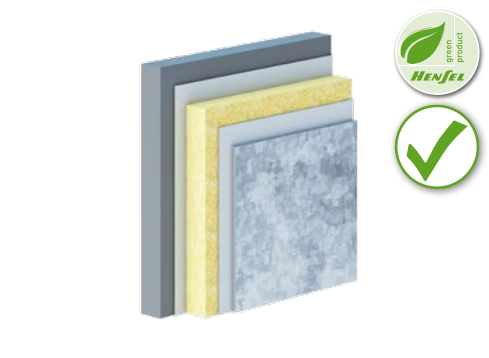
- Ablative fire protection coating/ indoor and outdoor use
- Tested according to EN 1366-4 in conjunction to EN 1363-1
- Classification report: KB 3.2/12-275-2
- Monitored by independent third party institutes
- Giscode: M-DF01
- DGNB Navigator: CDDWRA
- EPD-RHG-20140204-IAA1-DE
- Water-based, free from halogens, APEO, borates and plasticizers, Non-VOC according to ISO 11890-2, LEED confirmed
- Product is classified to VOC-emission class A+
- Areas of application: joints in ceilings max. 100 mm wide up to F90, membrane max. 100 mm wide up to EI 90 and higher, between concrete and/or masonry or aerated concreted
- Weatherproof/UV-resistant, impermeable to water
- Resistant to oil and petrol spills and ageing
- Viscoplastic at high layer thickness after drying
- Packaging: 12,5 kg plastic pails



### HENSOTHERM® Spachtel universal Joints

- Fire resistant intumescent acrylic compound; foams in case of fire; indoor and outdoor use
- Tested according to EN 1366-4
- Classification report: KB 3.2/12-275-4Ä
- Monitored by independent third party institutes
- Giscode: M-DF01
- Water based, free from halogens, APEO, borates and plasticizers, non-VOC according to ISO 11890-2, LEED confirmed
- Product is classified to VOC-emission A+
- Area of application: filling joints in borders, walls and floors up to 7,5 cm width up to R 120 in aerated concrete, concrete, reinforced concrete, sand-lime bricks and brickwork in accordance to EN 1366-4 on floors from > 125 mm and walls > 100 mm / EI 120 up to joint width 40 mm / EI 90 up to joint width 75 mm / tested up to 12,5% joint expansion
- Colour: greyish black
- Easy to handle, can be overcoated
- Packaging: 310 ml cartridge

## Special Adhesive



### HENSOMASTIK® K 2000 Flexible special adhesive

- Indoor use
- Special adhesive/glue
- Bonding and fixing of building materials with different coefficients of expansion
- Classified as A2-s1, d0 according to EN 13501-1, classification according to UNE 23721: class M1
- Fulfills the requirements of R1 HL3 according to EN 45545-2:2013; Exova Warringtonfire Test Report No. 2014-2265-1
- Free from solvents, VOC < 1 g/l
- Organic, permanent elastic
- Ready for spraying or also available viscous for application by trowel or spatula





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