

Declaration of Performance

According to Annex III of the Regulation (EU) No. 305/2011

HENSOTHERM® 421 KS

LE_421KS_GB_V02_02

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|--|---|
| 1. Product Type
Unique identification code of the product type | HENSOTHERM® 421 KS |
| 2. Type
Batch or serial number or any other element allowing identification of the construction product as required under Article 11 (4) | See label on the bucket |
| 3. Indented Use
or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer | Fire protection of structural steel „I“ and „H“ shaped beam and column sections as well as circular and rectangular/square hollow column sections and rectangular/square hollow beams up to fire resistance classifications of R120 and R180, respectively, for design temperatures in the range of 350°C to 750°C. |
| 4. Name, registered Trade Name
or registered trade mark and contact address of the manufacturer as required under Article 11 (5) | Rudolf Hensel GmbH
Lack- und Farbenfabrik
Lauenburger Landstraße 11
21039 Börnsen
Germany |
| 5. Contact Address
Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12 (2) | Not relevant (see 4) |
| 6. AVCP
System or systems of assessment and verification of constancy of performance (AVCP) of the construction product as set out in CPR, Annex V | System 1 |
| 7. Notified Body (hEN)
In case of the Declaration of Performance (DoP) concerning a production product covered by a harmonised standard | Not relevant |
| 8. Notified Body (ETA)
In case of the Declaration of Performance concerning a construction product for which a European Technical Assessment (ETA) has been issued | European Technical Assessment ETA 20/1228 issued by Element Materials Technology Rotterdam B.V. EAD 350402-00-1106 was used as European Assessment Document (EAD). The notified body 2812 performed third party tasks as set out in Annex V under System 1 and issued Certificate of Conformity 2812-CPR-GA5028. |

9. Declared Performance

Assessment method	Essential characteristic	Product performance																														
BASIC WORKS REQUIREMENT 2: SAFETY IN CASE OF FIRE																																
EN 13501-1	Reaction to fire	Class E																														
EN 13501-2	Fire resistance	(R15 to R120) – IncSlow (I/H Beams and Columns) and (R15 to R180) – IncSlow (Circular and Rectangular/Square Hollow Column as well as Rectangular/Square Hollow Beams) (see Annex A ETA 20/1228)																														
BASIC WORKS REQUIREMENT 3: HYGIENE, HEALTH AND THE ENVIRONMENT																																
Manufacturer's declaration and EN 16516	Content, emission and or release of dangerous substances	Product specification doesn't contain dangerous substances given in Annex XVII of REACH and the ECHA Candidate List of Substances of Very High Concern Use categories: IA1 and S/W2 Results for reactive coating to EN 16516 after 3 and 28 days:																														
		<table border="1"> <thead> <tr> <th></th> <th colspan="2">3 Days</th> <th colspan="2">28 Days</th> </tr> <tr> <th></th> <th>Restriction</th> <th>HENSOTHERM® 421 KS</th> <th>Restriction</th> <th>HENSOTHERM® 421 KS</th> </tr> </thead> <tbody> <tr> <td>R-Value</td> <td>N/A</td> <td>-</td> <td>≤ 1</td> <td>≤ 1</td> </tr> <tr> <td>TVOC</td> <td>≤ 10000 µg/m³</td> <td>≤ 10000 µg/m³</td> <td>≤ 1000 µg/m³</td> <td>≤ 1000 µg/m³</td> </tr> <tr> <td>TSVOC</td> <td>N/A</td> <td>-</td> <td>≤ 100 µg/m³</td> <td>≤ 100 µg/m³</td> </tr> <tr> <td>Total VOC without NIK</td> <td>N/A</td> <td>-</td> <td>≤ 100 µg/m³</td> <td>≤ 100 µg/m³</td> </tr> </tbody> </table>		3 Days		28 Days			Restriction	HENSOTHERM® 421 KS	Restriction	HENSOTHERM® 421 KS	R-Value	N/A	-	≤ 1	≤ 1	TVOC	≤ 10000 µg/m³	≤ 10000 µg/m³	≤ 1000 µg/m³	≤ 1000 µg/m³	TSVOC	N/A	-	≤ 100 µg/m³	≤ 100 µg/m³	Total VOC without NIK	N/A	-	≤ 100 µg/m³	≤ 100 µg/m³
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BASIC WORKS REQUIREMENT 4: SAFETY AND ACCESSIBILITY IN USE																																
EAD 350402-00-1106 Clause 2.2.4 and Clause 2.2.5	Primer compatibility	Steel substrates 1K acrylic dispersion with alkyd Alkyd resin, solvent based Two component epoxy resin, solvent based, Water based acrylic Galvanized steel substrates Two component epoxy resin, solvent based, Water based acrylic																														
	Top coat compatibility	Biora 20, HENSOTOP 84 AQ, HENSOTOP 84, HENSOTOP SB, HENSOTOP WB, Teknocryl 100, HENSOTOP2K PU, HENSOTOP WB Green																														
	Durability	Type X durability Type Y durability Type Z ₁ durability Type Z ₂ durability																														
	Working life	25 years for type Z ₂ (indoor use)																														
EAD 350402-00-1106 Clause 2.3.5	Identification	Thermoanalytical analyses (TG) and Infrared spectroscopy analyses (IR)																														

10. The performance of the product identified in point 1 and 2 is in conformity with the declared performance in point 9. This Declaration of Performance (DoP) is issued under the sole responsibility of the manufacturer identified in point 4.

Note:

Besides the Declaration of Performance assessments, technical data sheets and material safety data sheets for our HENSOTHERM® and HENSOMASTIK® products are available as pdf download on www.rudolf-hensel.de. For further questions concerning our products, our technical team is available by phone +49 40 721062-48.

Signed for the manufacturer and on behalf of the manufacturer:

Börnsen, 2021-06-30

Volker Thewes
Managing Director

ppa. Anja Peter (Dipl.-Ing. FH)
Technical Director

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