

# HENSOTHERM®

FIRE PROTECTION SYSTEMS

Technical Data Sheet

## HENSOTHERM® 1 KS INNEN



**Fire Protection Coating according to DIN EN 13501 for indoor use**  
**Classifies solid wood and wooden materials as hardly combustible B1**

### Classification

Fire behaviour is classified B-s1, d0 according to DIN EN 13501 (SBI-test)

### Use

- Solid wood, thickness > 12 mm
- Particle boards, thickness ≥ 12 mm
- Plywood for construction, thickness ≥ 12 mm
- For indoor use only with top coat
- Protect against mechanical stress

### Properties

ntumescent coating / Synthetic resin dispersion / Transparent / Contains no solvents or formaldehyde / Moisture-sensitive\*

### Application

- Check surface for appropriate adhesion: it should be free from dust, dirt, grease, wax, mould, oil, glues and whitewash  
**Remove existing coatings completely to the sound substrate!**
- Recommended conditions for application and during drying time: temperature > + 10 °C, relative humidity < 80 %
- Dew point must not be exceeded
- Moisture content of wood or wooden materials ≤ 15 %
- **For all type of wood and wooden materials it is required to prepare a suitable sample area before application!**
- Priming with **HOLZGRUND AQ** improves adhesion and aspect of wooden surfaces. Notice Technical Data Sheet of **HOLZGRUND AQ**
- Use **HOLZGRUND SB** as saturation of highly absorbent wooden surfaces or for the improvement of adhesion of the fire retardant coating on smooth surfaces
- No thinning of **HENSOTHERM® 1 KS INNEN** before application
- Stir material thoroughly before application
- Application by brush or roller, a short pile lambswool roller is recommended
- Application by airless spraying, airless pumps which generate an operation pressure of 200–250 bar by using a nozzle size of 0.013"–0.015" are recommended, flow rate > 4 l/min
- Coverage rate: the required 300 g/m<sup>2</sup> (approx. 220 µm wet) can be applied in a single coating operation
- \***HENSOTHERM® 1 KS INNEN** must be fully dried (transparent, clear) before mandatory top coating / finishing with top coat **HENSOTOP 84 AF** (notice Technical Data Sheet)
- Cleaning of equipment with **warm water**

### Drying Times

Drying time depends on temperature and relative humidity. At a temperature of approx. + 20 °C and a relative humidity of approx. 65 % drying times are as follows:

#### HENSOTHERM® 1 KS INNEN

- Per layer approx. 12–24 hours
- The coating becomes transparent after through-drying.

#### HENSOTOP 84 AF

- Dust-dry after approx. 0.5 hours
- Fully dried after approx. 8–10 hours

**Coating system is sensible to pressure within the first weeks.**

### Shop Application

For shop application of **HENSOTHERM® 1 KS INNEN** please contact our Technical Support by phone **+49 40 72 10 62-48** or by e-mail **contact@rudolf-hensel.de** for detailed instructions.

### Surface Maintenance

- **Do not** clean with water!
- **Do not** use acid or alkaline cleaner!
- **Do not** use solvent!
- **Surface cleaning only with a dry and smooth cloth.**

### Work Safety

Use **HENSOTHERM® 1 KS INNEN** in accordance with all applicable local and national regulations.

Giscode: M-KH01

### Environment, Health and Safety

As regulations are often revised please request for the actual safety data sheet before using the product.

### Packaging

Supplied in 6 kg, 12.5 kg and 25 kg plastic pails

### Storage and Transport

- Transport and storage at min. + 5 °C to max. + 30 °C.  
Protect against frost!
- Unopened packaging at a storage temperature of 20 °C has a 12-month shelf life.
- Opened pails must be sealed carefully after use!

The information provided herein reflects the current state of our technical testing and experience with the use of this product. However, the buyer/user is hereby not relieved of their duty, at their own responsibility, to properly examine our materials for their suitability for the intended use based on the respective site conditions. Legal claims for damages arising from the use of this product for purposes other than, or in a manner that differs from, the description contained herein without our prior written approval are precluded and may not be asserted against us. In light of the circumstance that we have no influence over site conditions and various factors that could influence the performance and use of our product, a guarantee of results or liability, regardless of legal grounds, cannot be derived from this information or from verbal consultation provided by one of our employees unless we may be accused of intent or gross negligence. Our General Terms and Conditions apply for all other purposes ([www.rudolf-hensel.de/gtc](http://www.rudolf-hensel.de/gtc)). The most recent version of our technical data sheet is valid and may be requested from the Rudolf Hensel GmbH or downloaded at [www.rudolf-hensel.de](http://www.rudolf-hensel.de). © Rudolf Hensel GmbH 06/21

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