

# CE Data sheet

## Rhepanol® hfk-sk



<b>Product name:</b>	<b>Rhepanol® hfk-sk</b>
<b>General approval for construction use:</b>	<b>P-K14-1192.1</b>
<b>Manufacturer/supplier:</b>	FDT FlachdachTechnologie GmbH & Co. KG Eisenbahnstraße 6-8 68199 Mannheim Germany
<b>Production plant:</b>	Mannheim
<b>Type of application:</b>	Hot air weldable PIB synthetic roofing membrane for bonded layer build-ups with and without ballast, except for green roofs. For the installation, the application guidelines of the manufacturer have to be observed.
<b>European standard:</b>	EN 13956
<b>Product description:</b>	Compatible with bitumen, homogeneous synthetic roofing membrane with fleece backing and self-adhesive coating. The nominal thickness of the waterproofing layer is 1.5 mm.
<b>Standard membrane dimensions:</b>	15 m x 1.50 m x 2.5 mm, 15 m x 1.00 m x 2.5 mm, 15 m x 0.50 m x 2.5 mm

## Rhepanol® hfk-sk 1.5 mm

Properties	EN standard	Results
External fire performance	DIN CEN/TS 1187	B <sub>roof</sub> (t1) (Testing according DIN CEN/TS 1187 with different roof build-ups. Testing reports can be requested separately.)
Reaction to fire	DIN EN ISO 11925-2 DIN EN 13501-1	class E
Water vapour property $\mu$	DIN EN 1931 (method B)	$\geq 160,000$
Tensile strength	DIN EN 12311-2 (method A) DIN EN 12311-2 (method B)	$\geq 400$ N/50 mm
Elongation at break	DIN EN 12311-2 (method A) DIN EN 12311-2 (method B)	$\geq 80$ %
Joint peel resistance	DIN EN 12316-2	$\geq 100$ N/50 mm
Joint shear resistance	DIN EN 12317-2	$\geq 250$ N/50 mm (fracture outside the joint area)
Resistance to impact	DIN EN 12691 (method A)	$\geq 700$ mm
Resistance to static load	DIN EN 12730 (method B)	$\geq 15$ kg
Hail resistance rigid substrate flexible substrate	DIN EN 13583	$\geq 25$ m/s $\geq 35$ m/s
Tear resistance	DIN EN 12310-2	$\geq 150$ N
Dimensional stability	DIN EN 1107-2	$\leq 0.5\%$
Foldability at low temperature	DIN EN 495-5	$\leq -40$ °C
Exposure to bitumen	DIN EN 1548	passed
Chemical resistance	DIN EN 1847 (List annexe C)	passed
UV exposure	DIN EN 1297	class 0 (5,000 h)
Watertightness	DIN EN 1928 (method B)	$\geq 400$ kPa

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All information as well as all technical and drawing data comply with current technical standards and are based on our experience. National standards and regulations must be observed.

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## Product information

### Rhepanol® hfk-sk – roofing membrane for adhesive bonding

Rhepanol hfk-sk is made of polyisobutylene (PIB), with a glass/polyester fleece backing, a self-adhesive coating and an unbacked edge. In the seam area, the roofing membranes are homogeneously connected by hot air welding. After laying, the glass/polyester fleece backing reduces stress and strain on the whole waterproofing build-up.

### Characteristics

- Roofing membrane made of polyisobutylene, compatible with bitumen, with glass/polyester fleece backing, thickness 1.5 mm plus 1.00 mm backing and self-adhesive coating pursuant to the General Building Construction Supervision Test Certificate AbP-No. P-K14-1192.1.
- Weather-resistant, even without additional surface protection
- Resistant to atmospheric influences such as UV radiation or exhaust gas from industrial and heating plants
- Remains flexible, even at temperatures as low as –40 °C
- Outstanding resistance to natural ageing
- Free of plasticisers, chlorine, halogens, bitumen and PVC, resistant to rotting, non-porous (factory high-frequency testing)
- Resistant to flying sparks and radiant heat according to DIN CEN/TS 1187, confirmed by official test certificates
- Reaction to fire: class E according to DIN EN 13501-1
- Permanently resistant to UV radiation
- Hail-resistant according to EN 13583
- Thermal conductivity according DIN 52612-1: 0.26 W/mk
- Certified with an Environmental Product Declaration (EPD) according to ISO 14025 and EN 15804

Rhepanol hfk-sk is highly resistant to most substances commonly used in the construction of roofs. Beyond that we confirm resistance to further materials/substrates on request.

Where exposure to high concentrations of organic solvents, lacquers, fats and oils is likely, we recommend further advice from our Technical Support Team.

### Quality assurance

Rhepanol hfk-sk is subject to constant in-house and external quality control. The in-house quality assurance system for the whole company has been certified according to DIN EN ISO 9001, the world's most strict quality standard, and is constantly monitored by TÜV SÜD Management Service GmbH.

### Range of application:

Rhepanol hfk-sk is a self-adhesive Rhepanol hfk roofing membrane for adhesive bonding, except for green roofs.

### Ecology and environment:

Rhepanol hfk has gone through a life cycle assessment according to DIN EN ISO 14040-49 carried out by the independent institute C.A.U. GmbH (Gesellschaft für Consulting und Analytik im Umweltbereich) (Company for Ecological Consulting and Analytics Ltd). FDT will be glad to send you on request a summary of the life cycle assessment and also the Environmental Product Declaration for Rhepanol hfk-sk. Rhepanol is not a dangerous good according to the EU Ordinance on Hazardous Substances.

**FDT FlachdachTechnologie  
GmbH & Co. KG**

Eisenbahnstraße 6-8  
68199 Mannheim  
Germany

Tel +49 (0) 6 21-85 04-0  
Fax +49 (0) 6 21-85 04-2 05  
www.fdt.de