

Data sheet

Rhepanol® hg



Product name:	Rhepanol® hg
General type approval:	Z-72.4-11
Manufacturer/supplier:	FDT Flachdach Technologie GmbH Eisenbahnstraße 6 – 8 68199 Mannheim Germany
Production plant:	Mannheim
Type of application:	As sealing of green, graveled or used roofs. The waterproofing membrane are also used in the area of building waterproofing. For the installation, the application guidelines of the manufacturer have to be observed.
FPC certificate no.:	0761-CPR-1068 0761-CPR-1069
European standard:	EN 13956:2012 / EN 13967:2012
Product description:	Synthetic roofing membrane made of PIB with glass fleece reinforcement and compatible with bitumen. Effective thickness is 1.5/1.8 mm.
Standard membrane dimensions:	15 m × 2.05 m × 1.5 mm 15 m × 2.05 m × 1.8 mm

Rhepanol® hg 1.5 mm (1.8 mm)

Essential characteristics	Performance	Test Standard
Reaction to fire	DIN EN 13501-1	Class E
Water vapor property μ	DIN EN 1931 (B)	$\geq 160,000$ +/- 30 %
Tensile strength	DIN EN 12311-2 (B)	≥ 4 N/mm ²
Elongation	DIN EN 12311-2 (B)	≥ 400 %
Joint peel resistance	DIN EN 12316-2	≥ 150 N/50 mm
Joint shear resistance	DIN EN 12317-2	≥ 200 N/50 mm (tear off outside the joint seam)
Resistance to impact rigid substrate flexible substrate	DIN EN 12691 (A/B)	≥ 700 mm $\geq 2,000$ mm
Resistance to static load	DIN EN 12730 (B)	≥ 20 kg
Hail resistance rigid substrate flexible substrate	DIN EN 13583	≥ 20 m/s ≥ 30 m/s
Tear resistance	DIN EN 12310-2	≥ 90 N
Nail shank tear resistance	EN 12310-1	≥ 150 N
Resistance to root penetration	FLL DIN EN 13948	root- and rhizome-resistant
Dimensional stability	DIN EN 1107-2	≤ 0.5 %
Foldability at low temperature	DIN EN 495-5	≤ -60 °C
Behavior when exposed to bitumen	DIN EN 1548	passed
Chemical resistance	DIN EN 1847	passed
UV exposure	DIN EN 1297	Class 0 (5,000 h)
Water tightness	DIN EN 1928 (B)	≥ 400 kPa/72 h
Durability of water tightness against ageing	EN 1296 (96 d) EN 1928 (B) (24h/60kPa)	passed
Durability of water tightness against chemicals	EN 1847 (28d/+23°C) EN 1928 (B) (24h/60 kPa)	passed
Dangerous substances	see footnote ¹⁾	

¹⁾ European harmonized standards for testing methods do not exist, therefore the testing and declaration for the release of substances must be obtained in regards of national regulations/requirements.

Product information

Rhepanol hg – waterproofing in loose-laid layer build-up under ballast with greening

Rhepanol hg is a roofing membrane made of polyisobutylene (PIB) according to DIN EN 13956, and a waterproofing membrane made of polyisobutylene (PIB) according to DIN EN 13967. Rhepanol hg is reinforced with a central glass fleece. Furthermore, Rhepanol hg is optimized for hot-air application. So for joining the seams only hot-air welding is used. Because of their excellent material properties, Rhepanol hg roofing membranes can be laid in a single layer.

Material characteristics

- Long-term proven material polyisobutylene (PIB). A roofing membrane according to the general type approval Z-72.4-11 (DiBt)
- Root- and rhizome-resistant according to the FLL method without the use of herbicides
- Compatible with bitumen
- Highly resistant to perforation
- Resistant against red algae
- Free from plasticizers and halogen fire retardants
- Reaction to fire: Building material class B 2, DIN 4102 or class E according to DIN EN 13501-1
- Permanently resistant to UV radiation
- Hail-resistant according to DIN EN 13583 Compatible with all kinds of insulation materials
- Flexible at temperatures as low as – 60 °C
- Hot-air weldable
- Dimensionally stable due to the glass fleece reinforcement
- Application without open flame
- Can be connected to Rhepanol fk using hot-air welding
- Suitable for rainwater retention (retention roof)
- Also suitable for non-sloping surfaces

Quality assurance

Rhepanol hg is subject to constant quality control through internal and external monitoring. The internal quality assurance system of the entire company is certified according to DIN EN ISO 9001, the world's most stringent quality standard, and is regularly checked by TÜV SÜD Management Service GmbH.

Range of application

Rhepanol hg is used as a roof sealing in a loosely laid layer built-up under greened, graveled or used areas and in the area of building waterproofing.

Ecology and environment

- Certified in a life cycle assessment according to DIN EN ISO 14040 ff
- Certified with an Environmental Product Declaration (EPD) according to ISO 14025 and EN 15804 (www.ibu-epd.com) Listed in the
- DGNB Navigator (www.dgnb-navigator.de)
- Rhepanol hg is not a dangerous good according to the EU Ordinance on Hazardous Substances.

Storage conditions

- The roofing membranes retain their product properties in unopened and undamaged original packaging
- Store material in original packaging until processing
- Carefully reseal opened packaging units when storing outdoors
- Store rolls horizontally only
- Protect rolls from direct sunlight, rain and snow

FDT legal notice

We refer emphatically to the fact that all the details mentioned, especially the application and utilization recommendation for the products and their system accessories, have been developed under normal conditions, and based on our knowledge and experience. Appropriate storage and usage of the products are assumed. A warranty or reliability of a finished project cannot be deducted because of varying materials, substrates and differing work conditions, neither by any indications nor from verbal statements, irrespective of any legal positions. For the possible accusation that FDT acted intentionally or grossly negligent, the user has to supply evidence that they provided FDT with all information and details necessary for an appropriate and correct evaluation through FDT in written form, immediately available and complete. The user is responsible for ensuring that the products are suitable for the given application. It is FDT's right to change product specifications without notice. Property rights of third parties are to be considered. In addition, our particular sales and delivery terms are valid. The latest version of our product data sheet is obligatory, which can be requested directly through FDT. 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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