

Rhepanol® hg



Data sheet
Roofing
membranes

Rhepanol hg

Sealing in loosely laid layer build-ups with ballast, with green roof system.

Rhepanol hg is a roofing membrane made of polyisobutylene (PIB), DIN EN 13956, and a waterproofing membrane made of polyisobutylene (PIB), DIN EN 13967. The only difference is that for Rhepanol hg reinforcement is not achieved by a fleece backing but by a central glass fleece reinforcement.

Furthermore, Rhepanol hg is optimised for hot air application. For joining the seams only hot air welding is used. Owing to the outstanding material characteristics, roofing membranes Rhepanol hg are suitable for single-ply application.

Quality assurance

Rhepanol hg is subject to constant in-house and external quality control.

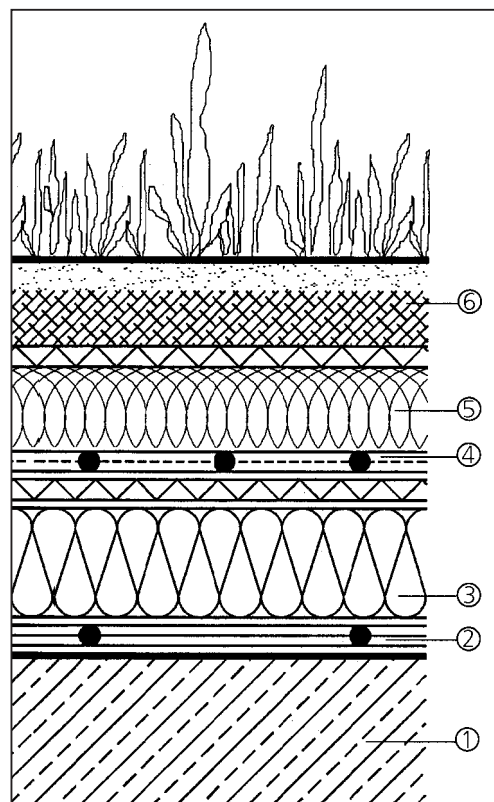
The in-house quality assurance system for the whole company has been certified according to DIN EN ISO 9001, the world's most strict quality standard, and is constantly monitored by TÜV CERT.

Range of application

Rhepanol hg is used as a roof sealing in loosely laid layer build-ups with ballast, with green roof system.

Example:

Extensive green roof, sealed with Rhepanol hg, loosely laid with ballast.



- ① Reinforced concrete
- ② FDT vapour barrier fk
- ③ Thermal insulation layer
- ④ Rhepanol hg 1.5 mm/1.8 mm
- ⑤ Drainage and filter layer, at the same time protection layer
- ⑥ Vegetation layer

Material properties

- Long-term proven material polyisobutylene (PIB). A roofing membrane following the standard DIN 16731 according to the General Building Construction Supervision Test Certificate ABP-Nº P-K 010/01.05 MPA Darmstadt.
- Root/rhizome resistant according to the FLL method.
- Compatible with bitumen.
- A roofing membrane for green roofs according to the FLL Guideline.
- Highly resistant to perforation.
- Certified in a life cycle assessment according to DIN EN ISO 14040 ff.
- Free from plasticizers and halogen fire proofing agents.
- Permanently resistant to UV radiation.
- Hail-resistant according to SIA 280.
- 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.
- Compatible with Rhepanol fk and the self-sealing edge system.

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Physical Properties

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Properties	EN standard	Value	Unit
Water tightness	EN 1928	≥ 400	kPa
Joint shear resistance	EN 12317-2	≥ 200	N/50 mm
Tensile strength	EN 12311-2 (A)		N/50 mm
	EN 12311-2 (B)	≥ 4	N/mm ²
Elongation	EN 12311-2 (A)		%
	EN 12311-2 (B)	≥ 400	%
Resistance to static load	EN 12730 (B)	20	kg
Tear resistance	EN 12310-1	≥ 250	N
	EN 12310-2		N
Resistance to root penetration; FLL testing	EN 13948	passed	
Foldability at low temperatures	EN 495-5	- 60	°C
Exposure to bitumen	prEN 1548	passed	
Reaction to fire	EN 13501-1	class E	
Durability of water tightness against aging	EN 1296	passed	
	EN 1928		
Durability of water tightness against chemicals	EN 1847	passed	
	EN 1928		

Material	Colour	Thickness	Width	Lenght	Weight
		mm	m	m	kg/m ²
Rhepanol hg 1.5	grey	1.5	2.05	15	1.70
Rhepanol hg 1.8	grey	1.8	2.05	15	2.05



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