

Rhepanol® fk



Data sheet
Roofing
membranes

The roofing membrane for all application methods

Rhepanol fk is made of polyisobutylene (PIB), with a prefabricated self sealing edge and an integrated synthetic fleece backing. The sealing edge makes it easier to seal the seams and provides a permanently secure joint. The fleece backing provides additional protection against stresses originating from the substrate. Furthermore, the fleece backing allows diffusion and ensures secure fastening onto the substrate.

Range of application

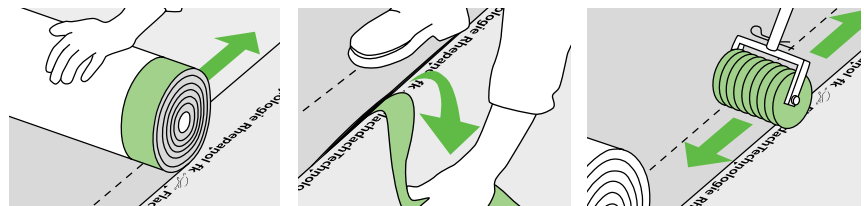
Depending on the supporting deck and the substrate conditions, Rhepanol fk can be applied in different ways:

- mechanical fastening with the Gripfix system,
- loose laying with ballast,
- bonded fixing.

Rhepanol fk with a double-sided sealing edge is used for expansion joints and flashings.

Quality assurance

Rhepanol fk 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.



Roll out, clean the seam area, pull off the protective strip, roll on the edge, that's all!

Material properties

- Roofing membrane according to DIN EN 13956 resp. to DIN 16731
- Weather-resistant, even without additional surface protection.
- Resistant to atmospheric influence such as UV-radiation or exhaust gas from industrial and heating plants.
- Remains flexible, even at temperatures as low as – 60 °C.
- Outstanding resistance to natural ageing.
- Free of plasticizers and halogens, resistant to rotting, non-porous (factory high-frequency testing).
- Resistant to flying sparks and radiant heat according to DIN 4102 resp. DIN V ENV 1187, confirmed by official test certificates, building materials class B 2.
- In terms of resistance to root penetration Rhepanol fk meets the test requirements of DIN 4062, sections 4.7 and 5.7.
- Hail-resistant according to SIA 280.

Rhepanol fk is highly resistant to most substances commonly used in the construction of roofs. Where exposure to high concentration of organic solvents, lacquers, fats and oils is likely, we recommend further advice is sort from our Technical Support team.

Ecology

Rhepanol fk has gone through a life cycle assessment according to ISO EN 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 a summary on the life cycle assessment on request.

Rhepanol® fk

Data and forms of supply

Data sheet
Roofing
membranes



Properties	EN standard	Value	Unit
Tensile strength	EN 12311-2 (A)	≥ 400	N/50 mm
Elongation	EN 12311-2 (A)	≥ 50	%
Tear resistance	EN 12310-2	≥ 150	N
Joint peel resistance	EN 12316-2	≥ 80	N/50 mm
Joint shear resistance	EN 12317-2	≥ 150	N/50 mm
Resistance to impact	EN 12691	700	mm
Resistance to static load	EN 12730 (B)	20	kg
Hail resistance; SIA 280	EN 13583	> 28	m/s
Dimensional stability	EN 1107-2	≤ 0.5	%
Water tightness	EN 1928 (B)	≥ 400	kPa
Foldability at low temperatures	EN 495-5	- 60	°C
UV exposure	EN 1297	5000	h
Water vapour properties	EN 1931	≥ 260.000	
Reaction to fire	EN 13501-1	class E	
External fire performance	ENV 1187 DIN 4102-7	B _{roof} (t1)	
Exposure to bitumen	prEN 1548	passed	
Thermal conductivity	DIN 52612/1	0.26	W/mK
Linear coefficient to thermal expansion		4 x 10 ⁻⁵	K ⁻¹

Material	Colour	Thickness mm	Width m	Length m	Weight kg/m ²
Rhepanol fk with synthetic fleece backing	grey, black	1.5	1.05	15	2.60
	grey, black	1.5	1.05	10	2.60
	grey, black	1.5	0.65	15	2.60
	grey, black	1.5	0.52	15	2.70
	grey, black	1.5	0.35	15	2.80
Rhepanol fk with double-sided sealing edge	grey, black	1.5	1.05	15	2.70
	grey, black	1.5	0.65	15	2.80
	grey, black	1.5	0.52	15	2.80
	grey, black	1.5	0.35	15	2.90
	grey, black	1.5	0.25	15	3.00



SIG Design & Technology
Mannheim House
Gelders Hall Road
Shepshed
Leicestershire LE12 9NH

Tel: 01509 505714
Fax: 01509 505475

www.sigdandt.co.uk