

▶▶ Acid-Proof Membrane Rhepanol® O.R.G.



The acid-proof membrane with a clear mission

Rhepanol O.R.G. is used to protect concrete and steel substrates against chemically aggressive and water-contaminating substances.

The material for high-level protection

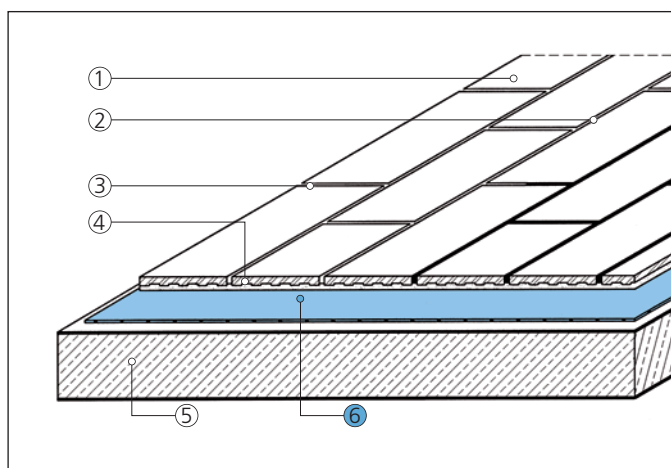
The acid-proof membrane Rhepanol O.R.G. is based on polyisobutylene (PIB), the material providing it with special properties: Rhepanol O.R.G. is permanently flexible and highly resistant to acids, alkaline solutions, salts and saline solutions, oxidising substances and other chemicals with which it comes into direct contact, up to temperatures of 80 °C (depending on the media). In specific cases, please consult our experts for advice on compatibility.

Increased temperature stability

When overlaid with acid-resistant ceramic/carbon bricks/tiles, Rhepanol O.R.G. shows significantly increased temperature stability.

A unique feature: electrically conductive!

Rhepanol O.R.G. contains carbon based aggregates making it electrically conductive. The advantage: In combination with an electrically conductive tiling it is possible to produce electrostatically non-chargeable flooring for potentially explosive zones that will reliably protect the substrate against chemicals at the same time.



Areas of practical application

Rhepanol O.R.G. protects any concrete substrate in production plants, sewers, storage facilities, secondary containments. In some cases, the acid-proof membrane is installed under ceramic tiling. Protection of metal substrates is particularly important, for example, in reaction, storage, scouring and pickling vessels with a high exposure to chemicals.

- ① Acid-resistant bricks, fine or heavy ceramic tiles
- ② Filling mortar
(cross joint/conductive, if required)
- ③ Hollow joint (approx. 6 to 8 mm wide)
- ④ Installation mortar (bed or horizontal joint/
approx. 8 mm/conductive, if required)
- ⑤ Substrate
- ⑥ Acid-proof membrane Rhepanol O.R.G.

Official approval

By virtue of the General Building Inspectorate Approval Z-59.21-22, Rhepanol O.R.G. is approved as a sealant layer within the meaning of AGI Worksheet S10, Part 2, for protection against water-contaminating substances pursuant to article 19 of the German Water Management Act (WHG).

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Physical data and available forms

Property Rhepanol O.R.G.	Certified to DIN	Unit	Value
Density	16726	g/cm ³	1,4
Tensile strength	16726	N/mm ²	4,0
Elongation at break	16726	%	500
Shore-A hardness	16726	–	80
Peeling resistance with Rhepanol contact adhesive 5 at Rhepanol primer 1 S	–	N/mm	2.0
Peeling resistance with Rhepanol fusion adhesive 7	–	N/mm	0.8
Surface resistance	IEC 60167	Ohm	< 10 ⁴
Volume resistance	IEC 60093	Ohm x cm	< 10 ⁵

Available forms	Colour	Thickness (mm)	Width (m)	Length (m)	Weight (kg/m ²)	(kg/lfm)
Rhepanol O.R.G.	black	1.5	1.05	15	2.10	2.20
	black	2.0	1.05	12	2.80	2.90
	black	3.0	1.05	10	4.20	4.40

Membranes are supplied on cardboard tubing with PE foil wrapping in cartons on pallets.

FDT legal notice

We refer emphatically to the fact, that all details mentioned, especially the application and utilisation 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 deduced 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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