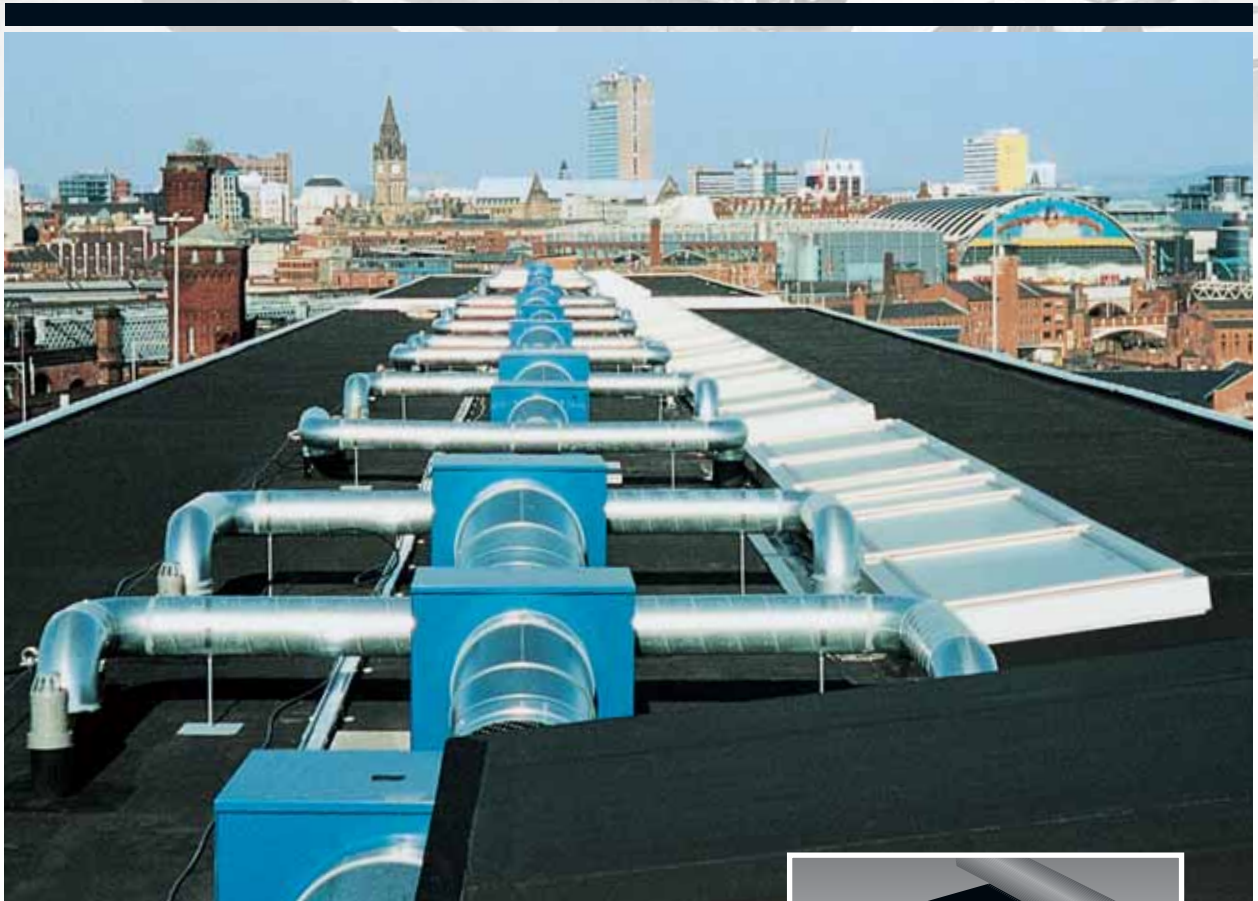


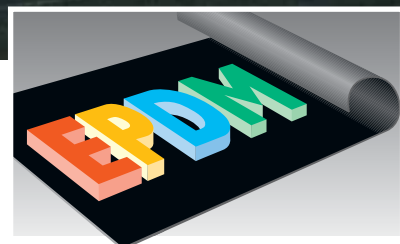
RESITRIX[®] SK
RESITRIX[®] MB
RESITRIX[®] classic

Heat-weldable synthetic rubber waterproofing membranes



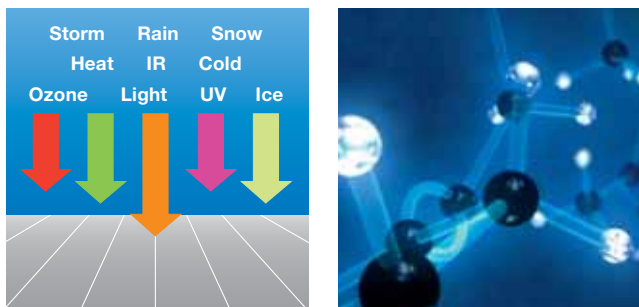
TIMBER WHARF APARTMENTS, MANCHESTER

With the proven
advantages of EPDM



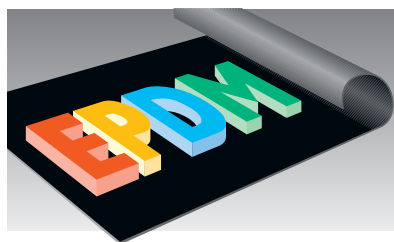
RESITRIX – with all the superior qualities of EPDM

High content polymer membranes are particularly suitable for the sort of extreme conditions commonly found in flat roof applications, making EPDM the most reliable and durable material solution for your flat roof.



EPDM elastomers have a cross-linked molecular structure, making them elastic and resistant to thermal deformation. This gives EPDM huge advantages over other materials in the problem area of reliable flat roof waterproofing:

- EPDM waterproofing membranes are permanently flexible and have a life expectancy of at least 50 years
- EPDM waterproofing membranes are highly resistant to UV and infra red light, without the need for additional surface protection
- EPDM waterproofing membranes offer exceptional resistance to the effects of weather, environmental chemicals and aggressive industrial emissions
- EPDM waterproofing membranes are extremely resistant to heat, cold, ozone and ageing



- EPDM gives off no toxic emissions in the event of fire and the membrane is suitable for thermal recycling even after it has been laid for many decades
- EPDM is extremely elastic, with no shrinkage or dimensional changes over a temperature range from -40°C to +120°C

By using an EPDM compound with none of the volatile plasticisers commonly found in plastic systems, our EPDM waterproofing membrane RESITRIX maintains its outstanding properties throughout its very long life. Tests on actual installations show that even when aged to 50 years, there is no measurable reduction in its weight, thickness or tensile strength and it retains a tear elongation factor of around 500%.

RESITRIX will ensure your roof stays permanently sealed, because we offer you:

- Assured installation
- Product durability
- fire safety
- consistent quality management
- environmental compatibility and more

PHOENIX waterproofing membrane has proved itself in practice. More than 35 million square meters have already been laid Worldwide, including the most exposed latitudes and locations. Our RESITRIX waterproofing membrane can be used on every type of flat roof structure and on slopes with any pitch up to vertical. It is suitable for warm roofs, cold roofs, uninsulated structures, inverted roofs, duo-roofs, green roofs and as an overlay to existing roof systems.

RESITRIX is a seam-weldable synthetic rubber waterproofing membrane, which Phoenix first produced in 1978. It is a natural progression of Phoenix's on-going programme of developing EPDM waterproofing membranes, which we started in 1968.

It has a unique adhesion-enabling polymer top surface and an integral glassfibre reinforcement that prevents shrinkage and guarantees flatness and stability. The underside of the membrane has a coating of high content modified bitumen containing the same elastomeric polymer as the top surface, for guaranteed lap welding performance.

RESITRIX can be used to encapsulate and waterproof the entire structure – on the roof, the walls and underground as a structural waterproofing.

EPDM

RESITRIX – Waterproofing membrane

For roofs and structures



- **RESITRIX** is a bitumen-compatible, heat-weldable, EPDM synthetic rubber.
- **RESITRIX** is highly resistant to ageing and weathering, in accordance with DIN 7864.
- **RESITRIX** is rot proof, frost proof and fully elastic down to -30°C.
- **RESITRIX** is maintenance free and highly slip resistant – even when wet.
- **RESITRIX** is resistant to a wide range of chemicals and environmental emissions.
- **RESITRIX** can be heat-welded with complete confidence in all weathers even at temperatures down to -10°C.
- **RESITRIX** waterproofing membrane conforms to DIN 4102, Part 1 (building material category B2) and is resistant to sparks and radiant heat according to DIN 4102, Part 7. It has been tested to BS 476 Part 7, Class 1 spread of flame.
- **RESITRIX** contains no chlorine or plasticisers and is not liable to heat shrinkage.
- **RESITRIX** waterproofing membrane is recyclable.
- **RESITRIX** waterproofing membrane is subject to external and internal monitoring in accordance with the requirements of the U.E.A.t.c. guidelines. It can be classified as suitable for use in accordance with section 7 of the UK Building Regulations.

Building Inspectorate Test Certificate Nos.

RESITRIX SK	RESITRIX MB	RESITRIX classic
P- 22 0969 497	P- 22 0968 897	P- 22 0967 197

Application Methods

RESITRIX SK

- Partially bonded self-adhesive
- Fully bonded self-adhesive

RESITRIX MB

- Laid loose with mechanical fixings
- Laid loose with ballast
- Partially bonded using polymer-modified hot bitumen
- Fully bonded using normal hot bitumen

RESITRIX classic

- Laid loose with mechanical fixings
- Laid loose with ballast
- Partially bonded using Phoenix PU adhesive
- Fully bonded using hot bitumen

Material properties	RESITRIX SK	RESITRIX MB	RESITRIX classic
Total thickness	2.5 mm ± 10 %	3.1 mm ± 10 %	3.1 mm ± 10 %
Weight	approx. 2.75 kg/m ²	approx. 3.5 kg/m ²	approx. 3.5 kg/m ²
Standard roll length	10 metres	10 metres	10 metres
Standard roll widths	1 metre, also available 250, 333, 500 and 666 mm		

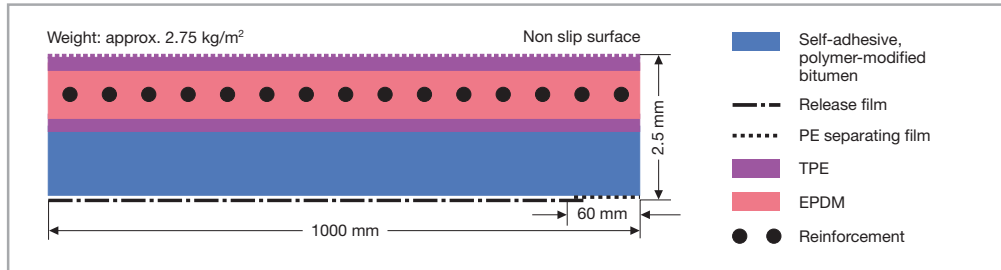
Physical values		RESITRIX SK	RESITRIX MB	RESITRIX classic
Test criterion	Required value	Actual value ¹⁾	Actual value ¹⁾	Actual value ¹⁾
Tear strength to DIN 53504 (N/4 mm)	Longitudinal: ≥ 21 Transverse: ≥ 16	40 33	35 29	40 33
Tear elongation to DIN 53504 (%)	Longitudinal: ≥ 300 Transverse: ≥ 300	595 542	541 528	595 542
Dimensional change after 24 hrs at 100°C to DIN 7864, Part 1 (%)	Longitudinal: ≤ 0.5 Transverse: ≤ 0.5	0 0	0 0	0 -0.1
Cold bending test to DIN 53361 (at -30°C)	No cracking	No cracking	No cracking	No cracking
Ozone resistance after storing for 14 days in water to DIN 7864, Part 1	Grade 0	Grade 0	Grade 0	Grade 0
Joint performance: ■ Transverse strength (N/50 mm) to DIN 7864, Part 1 ■ Peel strength (N/15 mm) by agreement with MPA-NRW	≥ 210 ≥ 24	811 115	701 112	811 115
Water vapour diffusion resistance index (μ) to DIN 52615		≈ 90,000	≈ 90,000	≈ 90,000

¹⁾ Average values from external monitoring by MPA-NRW in 2001.

Material structure of PHOENIX waterproofing membranes

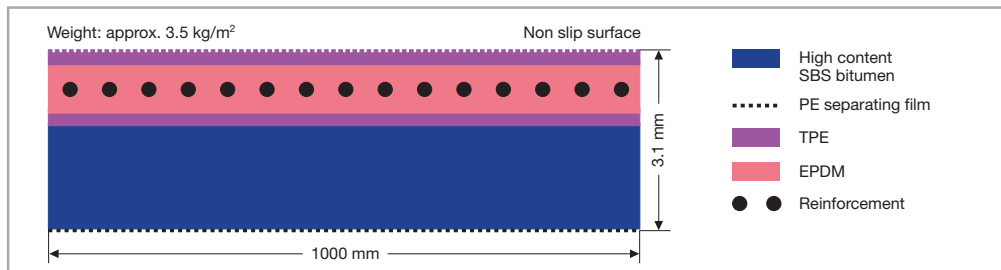
RESITRIX® SK ...the self-adhesive option

Building Inspectorate
Test Certificate
No. P-22 0969 4 97



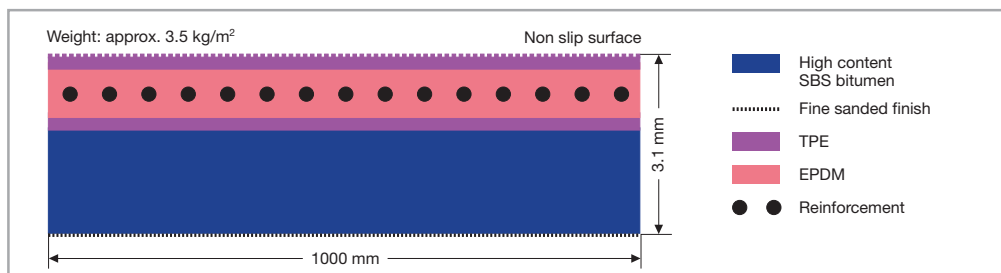
RESITRIX® MB ...specially for mechanical fixing

Building Inspectorate
Test Certificate
No. P-22 0968 8 97



RESITRIX® classic ...the traditional waterproofing membrane

Building Inspectorate
Test Certificate
No. P-22 0967 1 97



Adhesives, primers and thinners for use with **RESITRIX** waterproofing membranes



FG 35 Surface primer	G 2000 Contact adhesive	G 500 Thinner	PU-LMF-98 Polyurethane Adhesive
Product description			
Synthetic rubber and resin, low-viscosity, contains solvents, halogen-free	Polychloroprene adhesive, medium viscosity, contains solvents, halogen-free	Mixture of organic solvents, halogen-free	Single-component polyurethane adhesive, free-flowing, solvent-free, plasticiser-free
Areas of use (also see PHOENIX laying guidelines)			
<p>Priming all surfaces for self-adhesion of RESITRIX SK and RESISTIT ESK</p> <p>Priming porous surfaces for adhesion of PHOENIX roof sheets using FP 75</p>	Adhesion of RESITRIX classic perimeter flashings	<p>Thinner to mix with G 2000 (1:1) as a primer for porous surfaces, prior to using G 2000 adhesive</p> <p>Degreasing metal surfaces</p> <p>Cleaning tools and equipment</p>	Adhesion of RESITRIX classic to flat areas
Application instructions (also see PHOENIX laying guidelines)			
<p>Applied using a sheepskin roller or brush</p> <p>Drying time up to 1 hour after application</p>	<p>Applied using a sheepskin roller or brush</p> <p>Becomes touch-dry in 10-20 minutes, depending on conditions</p>	<p>Wipe metal surfaces with G 500 on a clean cloth</p> <p>Can be used to thin G 2000 adhesive up to a maximum 10 %</p>	<p>Poured onto substrate in stripes, straight from the can</p> <p>Open time up to 30 minutes in normal conditions</p> <p>Hardening time approx. 2 hours</p>
Minimum application temperature: 5°C			
Packaging sizes			
4.5 kg tins 25 kg drums	4.5 kg tins 1 kg tins	4 kg cans 0.68 kg tins	6 kg polythene containers
Shelf life at room temperature in unopened containers			
6 months	6 months	Unlimited	6 months
Health & Safety Advice			
See information on packaging and safety data sheets			



Simplicity of installation, Problem-free welding

RESITRIX SK
RESITRIX MB
RESITRIX classic



Heat welding mechanically fixed RESITRIX MB using a Leister Varimat with 85 mm wide nozzle



Machine welding laps in self-adhesive RESITRIX SK using a 40 mm wide nozzle



Heat welding with a handgun e.g. for corners and detail work

Hot-air welding – safe, simple and always reliable

- Welding can be carried out with equipment set to full power to optimise speed
- Welding speed determined simply by checking for a uniform welding bead
- Welding bead gives visible confirmation of a completely reliable seal
- Additional use of sealants at laps and T junctions is unnecessary
- No need for a test weld before work commences
- Weldability is not restricted to certain parts of the membrane – the whole surface is weldable
- Heat welding can continue at temperatures down to -10°C
- Subsequent welding onto the membrane surface is possible throughout its lifetime, even after decades of exposure



Partially bonding RESITRIX SK after partial application of FG 35 primer



RESITRIX MB laid loose with ballast



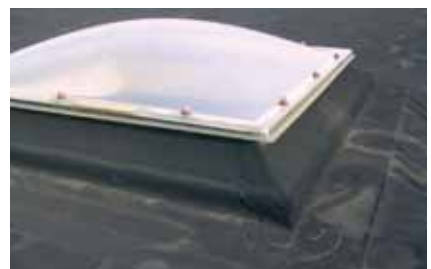
RESITRIX classic bonded with strips of PU-LMF-98 adhesive



Site-formed external corner using separate pieces of RESITRIX SK, MB or classic



Sealing around pipe penetrations using separate pieces of RESITRIX SK or classic



Sealing to a rooflight kerb including site-formed corners, using RESITRIX SK or classic



Sealing a convex curved gutter using RESITRIX SK



Sealing simple gutters using RESITRIX SK or classic



RESITRIX classic fully bonded in hot bitumen

More than 30 years' successful experience of waterproofing roofs using EPDM



TOYODA GOSEI UK LTD, ROTHERHAM



DAIMLER CHRYSLER, BREMEN



SOUTH CRAVEN SCHOOL, NORTH YORKSHIRE



CENTRAL STATION, HAMBURG



STORAGE SILOS, KARSTÄDT



TESCO REGIONAL HQ, CARDIFF



POWER STATION, FERRYBRIDGE



JENOPTIK, JENA



WATERPROOFING TO WINDMILL, NETHERLANDS



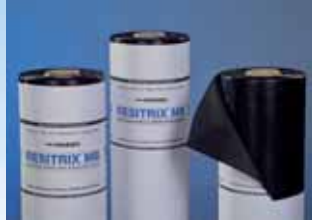
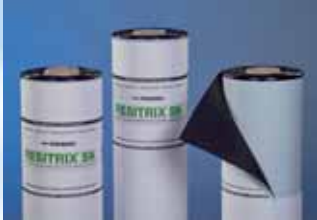
DANIEL THWAITES BREWERY, BLACKBURN



RESITRIX® SK
RESITRIX® MB
RESITRIX® classic

Heat-weldable waterproofing membrane

With the proven advantages of EPDM



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