

RESITRIX®

Range of single layer waterproofing membranes for roofs, façades and buildings

PRODUCT CATALOGUE



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"What makes RESITRIX® a winner for me? The unique material properties of EPDM, combined with outstanding installation qualities. Work is actually fun using a product like this."



JOHN WHITTAKER
NATIONAL SALES MANAGER

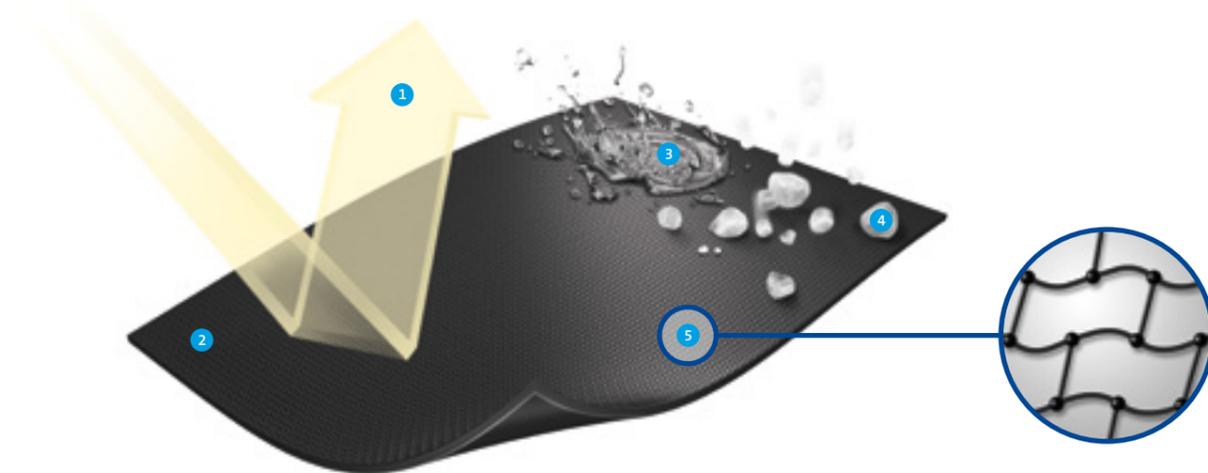
To offer waterproof solutions, you need the right products, we have these in our RESITRIX® product range. We have to be in touch with the market and its requirements. Only in this way can our R&D and Technical Department set standards in the development and handling of our products. In this way RESITRIX® will remain one of the best waterproofing membranes for roofs, façades and buildings.

RESITRIX® unites in one unique combination of materials the excellent properties of EPDM with the proven benefits of high quality polymer modified bitumen in a highly flexible, single layer waterproofing membrane. This is a successful combination, because the base layer of polymer bitumen allows the material to be laid on almost any substrate. You can also weld the membranes quickly, easily and safely to each other using a hot air gun, without any naked flames. The effectiveness of the seams can be tested immediately through a simple visual inspection. The principle here is as follows: the easily visible welding bead produced when properly welded guarantees that the roof is absolutely tight. 'RESITRIX® has been tested to SKZ standard, who are the official test agency for the European Union. Our product is also certified to have a service life of over 50 years – for the product itself and the seams.

Why EPDM?

A waterproofing system such as used on flat roofs has to endure a lot. Above all, moisture, thermal and mechanical stresses (wind, sun, cold, precipitation and so on) lead to serious material demands and quickly age many waterproofing systems. It's no wonder that the procedure for producing EPDM (ethylene propylene diene monomer rubber) received a Nobel prize.

Due to its molecular structure, EPDM has outstanding material properties:



- 1 **Permanently resistant to**
 - UV radiation
 - Ozone radiation
- 2 **EPDM**
- 3 **Extremely resistant to** a wide range of chemicals
- 4 **Excellent resistance to ageing and weather, especially:**
 - Rain
 - Hail, ice, snow
 - High and low temperatures
- 5 • Fully cross-linked molecular structure
 - Permanently elastic and highly flexible
 - Elongation at tear of up to 600 %
 - Flexible in cold weather down to -40 °C
 - Virtually shrink-free
 - Bitumen resistant
 - Halogen and softener free

Our RESITRIX® EPDM waterproofing system

For particular challenges and reliable protection for flat roofs, the waterproofing of buildings and façades – in both old and new builds – we have put all our experience and passion for EPDM into the development, production and installation of sustainable systems for over 50 years. This is how we developed our RESITRIX® EPDM waterproofing system.



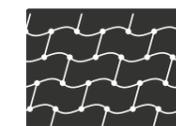
Thanks to the material qualities of EPDM, RESITRIX® is particularly characterised by its extremely stable molecular structure and is simultaneously extremely flexible down to a temperature of -40 °C. RESITRIX® withstands stretching of over 500 % and then returns to its original position – so RESITRIX® can withstand any of the expansion stresses to which a flat roof is subjected during its normal life cycle. Furthermore, over the entire life of a RESITRIX® roof, there are no measurable changes or loss in the weight, thickness or tensile strength or robustness of RESITRIX®.

For example, RESITRIX® has a maximum tensile force of approx. 650 N/50 mm: this means that you could suspend a small car of up to 1,300 kg to the membrane without any problems.

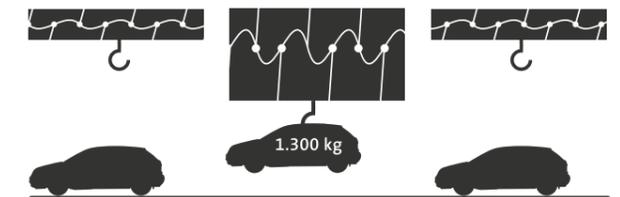
The RESITRIX® product range brings together the proven benefits of polymer-modified bitumen with the excellent qualities of EPDM in a highly flexible, single layer waterproofing membrane with outstanding installation properties.



NEWLY INSTALLED



NO STRUCTURAL CHANGES AFTER 50 YEARS



WITHSTANDS STRETCHING OF OVER 500% AND THEN RETURNS TO ITS ORIGINAL POSITION

Benefits of RESITRIX®

Long term, secure protection of your assets



SECURE FOR MORE THAN 50 YEARS

Thanks to the EPDM top layer of the membrane, RESITRIX® is extremely resistant to UV and all types of weathering, resists very large temperature fluctuations and, without any additional surface protection, undergoes almost no ageing processes. Neither do many chemicals or aggressive industrial emissions have any negative effect on the functional security and durability of the material. In a long term study, the SKZ Test Centre in Würzburg, the institute designated by the European Union for testing waterproofing membranes, has verified that RESITRIX® has a service life of over 50 years.



ABSOLUTE BITUMEN COMPATIBILITY

Due to the specially developed EPDM composition together with a polymer-modified bitumen base and integral glass-fibre reinforcement, RESITRIX® is obviously 100 % bitumen tolerant and thus is also ideal for the renovation of bitumen roofs. No additional separating layers are required. In addition, the membranes can be safely welded together using hot air in external temperatures down to -10 °C. Thus the entire underside of the membrane can be welded, which guarantees optimal flexibility.



ECONOMIC

RESITRIX® installation is fast and does not require any additional complex or time-consuming seam testing with additional testing tools. Through a simple visual check of the welding seam (welding bead) produced during installation, you can see at a glance whether you have produced a permanent and watertight joint. Simple installation, quick testing resulting in an economical solution.

RESITRIX® technology is also certified, the independent SKZ study forecasts an expected life of more than 50 years for RESITRIX® as a product and also for the seams.



RESPONSIBILITY FOR THE ENVIRONMENT & RECYCLING

The life cycle of RESITRIX® compared to the material of competitors has been assessed as extremely positive in the independent CREM study. All relevant processes in the entire life cycle of RESITRIX® were taken into account. Furthermore, RESITRIX® waterproofing membranes were subjected to internal and external monitoring in accordance with the requirements of European standards. The Dutch Institute for Building Biology and Ecology (Nibe) assessed RESITRIX® waterproofing membranes as one of the best products for use on flat roofs, with reference to environmental and health aspects. Amongst other things, RESITRIX® has been awarded the Singapore Green Label certificate. In addition, our RESITRIX® waterproofing membranes are backed by an environmental product declaration by the Institut Bauen und Umwelt e.V. (IBU) and are certified by the Deutsche Gesellschaft für Nachhaltiges Bauen (DGNB).



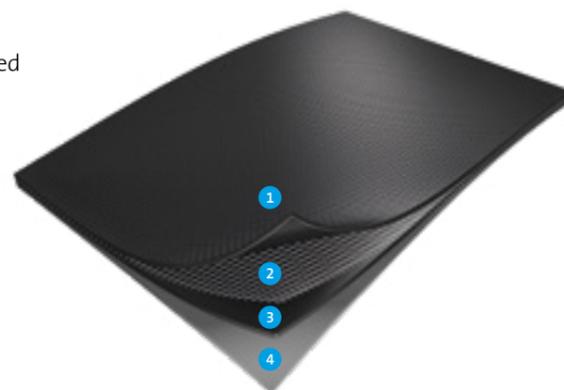
ECOLOGICALLY SOUND CONSTITUENTS, 100% FREE OF SOFTENERS

RESITRIX® has an extremely high level of chemical resistance; it is permanently resistant to bird faeces, numerous chemical emissions and other aggressive environmental influences.

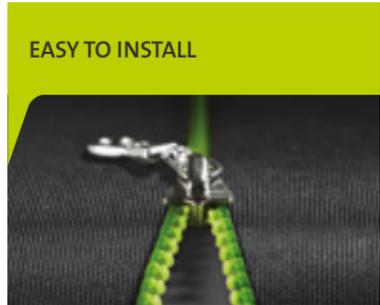
RESITRIX® also consists of ecologically sound materials and components, such as glass, EPDM, TPE and bitumen. The roofing membranes contain absolutely no hazardous additives such as heavy metals, halogens or volatile softeners. RESITRIX® is thus classified as 100 % non-toxic and no chemicals or dubious materials are released during the entire life cycle of RESITRIX®.

Membrane structure

- 1 EPDM with textured surface
- 2 Glass fibre reinforcement
- 3 EPDM
- 4 Polymer-modified bitumen

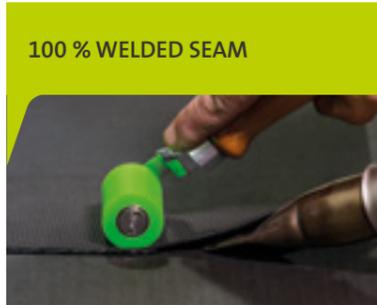


The RESITRIX® advantage



EASY TO INSTALL

Thanks to the high quality bitumen base, the material can not only be laid on almost any substrate but the installation of RESITRIX® is also easy and extremely safe. The membranes can be quickly and easily welded to each other using a hot air gun without any naked flames. The entire underside of the membrane can be welded. This means there are no special sealing edges. You can therefore freely select your layout for connections and terminations. No cover strips are required for transverse seams.



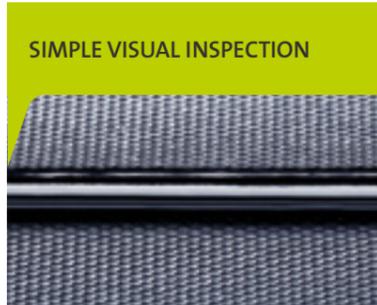
100 % WELDED SEAM

The bitumen layer on the underside of the membranes melts when welded with hot air and the overlapping RESITRIX® membranes weld to each other. The entire process happens through temperature, pressure and time. Heat melts the polymer-modified bitumen of the upper layer. Pressure pushes the two compatible membrane layers together. What emerges at the end is the weld bead – your visible seam.



NO FLAMES – NO FIRE ON THE ROOF

The roofing profession can be a risky industry to work in. Some of the risks, can however be significantly reduced through the materials used on site. RESITRIX® waterproofing membranes are welded together using hot air. The risk of danger when welding with hot air falls to almost zero when compared to welding using naked flames. Furthermore, the RESITRIX® product range has been certified using all the necessary fire-protection tests, and additionally has FM Approval.



SIMPLE VISUAL INSPECTION

The effectiveness of the seams can be tested immediately through a simple visual inspection. The principle is simple to carry out: The easily visible welding bead produced during the installation guarantees that the structure being sealed is absolutely secure. If the welding bead is not produced, then the hot air gun simply has to be applied again to the affected location.



PERFECT CONNECTIONS AND DETAILS

RESITRIX® is simple and quick to install, even for geometrically complex and complicated connections. Thanks to the composition of the material and the variable installation methods of RESITRIX®, the shaped parts required for any detailed construction can simply be cut from the roll to the required shape directly on site using sharp scissors. There is almost no material loss from offcuts and you can be sure that the parts cut to size will accurately meet local conditions. This means that you can be flexible and need no materials other than RESITRIX®. There are special pre-formed shaped and punched parts for sealing any round fitted parts and for constructing any corners.



OUTSTANDING ELASTICITY AND FLEXIBILITY

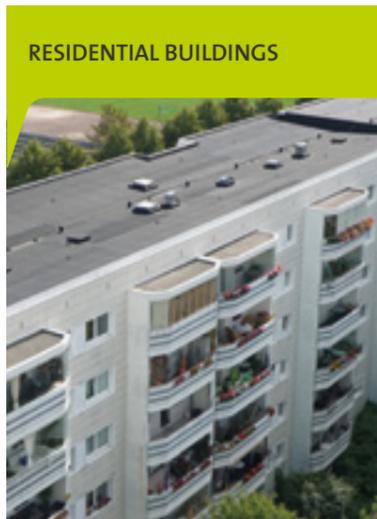
RESITRIX® waterproofing membranes are almost shrink free, which is due to the vulcanised glass-fibre reinforcement and being 100 % free from softeners. This is why RESITRIX® waterproofing membranes additionally have the inestimable benefit in use of, in many cases, not requiring the edge fixing generally required for the absorption of horizontal forces. In addition, all RESITRIX® waterproofing membranes have a proven low temperature flexibility of -40 °C. As this key figure and elasticity of over 500%, in combination with the almost total freedom from shrinkage mentioned above, remain almost unchanged for decades, stress cracks can be completely ruled out when installed. This also means that the shattering effect does not occur in RESITRIX® waterproofing membranes.



RESITRIX® – For every type of a building



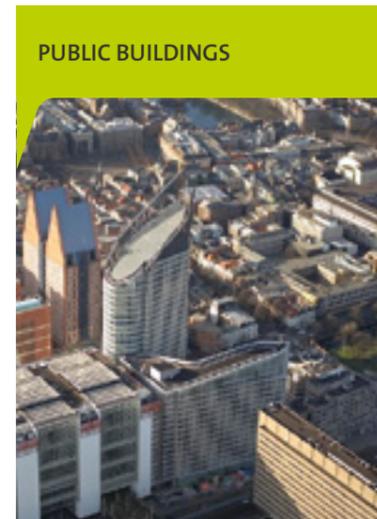
- Various installation types
- Safe installation
- High chemical resistance



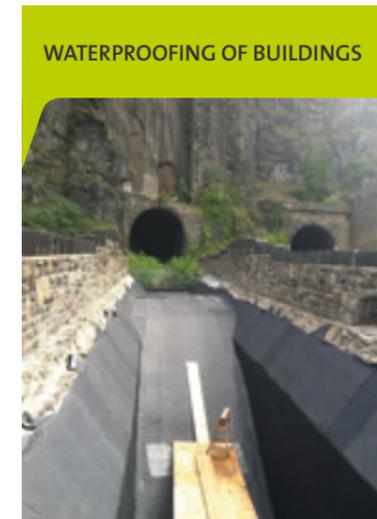
- Including garages and balconies
- Preferably bonded / self-adhesive installation



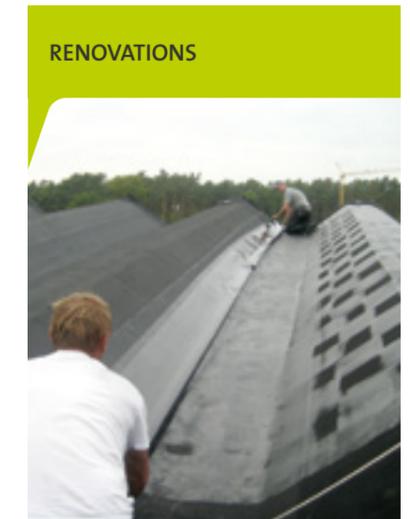
- For extensive and intensive vegetative roof systems
- FLL certification



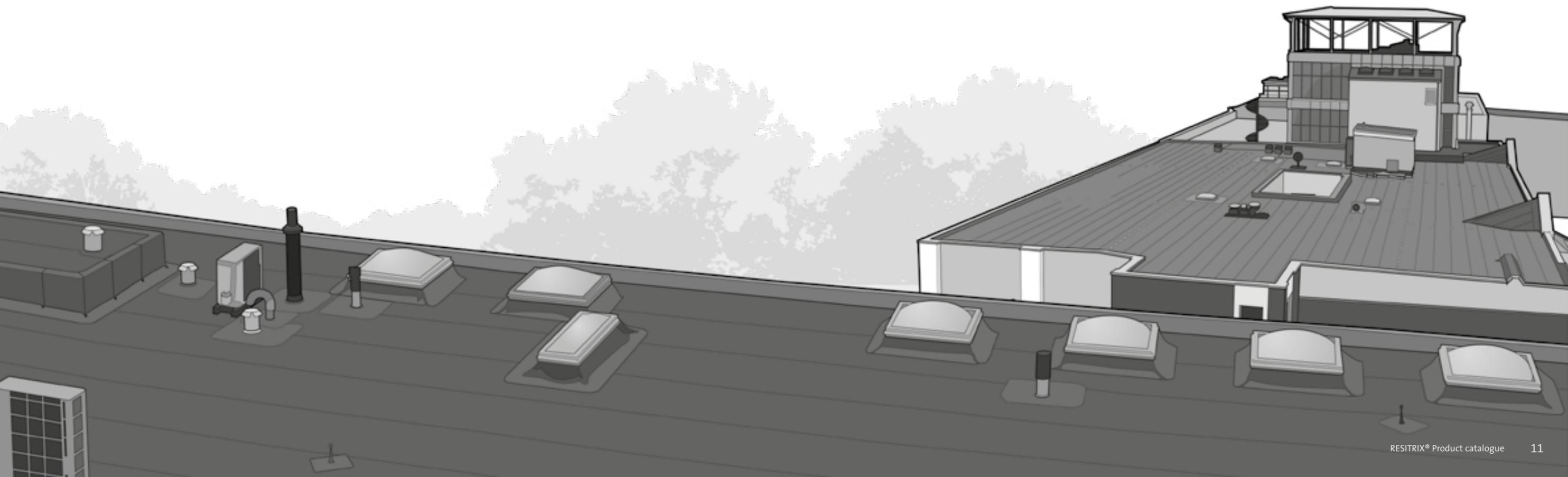
- Various installation types
- Permanently good appearance
- Can be laid on almost any substrate



- Underground waterproofing
- Infiltration-proof, stable installation



- Direct installation possible on old roofs made from bitumen
- Preferably self adhesive installation



RESITRIX® product range

For more than 35 years, the RESITRIX® product range has provided permanently reliable systems for waterproofing roofs, walkable surfaces, components that touch the ground, interiors, containers and façades, for both new builds and renovations.



PROPERTIES

- Life expectancy in excess of 50 years
- Single-layer waterproofing
- Permanently elastic and flexible at low temperatures
- No shattering effect
- No additional surface protection required: resistant to ozone, UV and infra-red radiation
- Resists numerous chemical materials and environmental emissions
- Bitumen resistant
- Free from softeners and chlorine
- Can be walked on at temperatures as low as -40 °C
- Non-slip, even when wet
- Practically shrink free throughout its entire period of use
- Recyclable

LAYER SECURITY VARIANTS USING RESITRIX® SEALING MEMBRANES

Loose installation with ballast

Here, each layer lies loosely and the layers are secured using relevant ballast, such as washed river gravel. The ballast for flat roofs has to be taken from DIN EN 1991-1-4.

Mechanical fixing

Here the layers are secured by fixing using screws and plates in the load-bearing layer. There are various systems for this: the necessary fixing elements must be calculated according to DIN EN 1991-1-4.

Bonded installation

Here all the layers are bonded with each other and with the load-bearing layer using suitable adhesives. For this, the substrate must be sufficiently firm and load-bearing, and the layers must be able to be bonded with each other.

The necessary adhesive quantities and their distribution must be calculated according to DIN EN 1991-1-4.



Product overview of RESITRIX® waterproofing membranes

Select the correct membrane from our RESITRIX® watertight product range.

RESITRIX® CL

Classically bonded using PU.

RESITRIX® CL is the classic EPDM waterproofing membrane for hot and cold bonding applications, preferably for PU-adhesion. For decades, it has consistently proven itself in practice, on tens of thousands of flat roofs.



RESITRIX® MB

Mechanically fixed.

RESITRIX® MB is the EPDM waterproofing membrane that can be welded using hot air, particularly for mechanical fixing and loose installation. It additionally meets FM Standard Class No. 4470 (FM Approval).



RESITRIX® SK W FULL BOND

Self-adhesive and root-resistant across the full surface.

RESITRIX® SK W Full Bond is a single layer waterproofing membrane that is self-adhesive and root-resistant across the full surface, can be welded using hot air, and has an FLL test certificate and licence under DIN EN 13948.

RESITRIX® SK W Full Bond can be installed on numerous substrates, for example as a fully bonded system or under all types of roof gardens and green roofs.



RESITRIX® SK PARTIAL BOND

Partially self-adhesive.

This EPDM waterproofing membrane can be welded using hot air and is partially self-adhesive.

RESITRIX® SK Partial Bond can be used on materials that are susceptible to movement and substrates with residual moisture.



Classic waterproofing membrane

FOR SUBSTRATE BONDING USING PU ADHESIVE

RESITRIX[®] CL is a waterproofing membrane that can be welded using hot air and is based on EPDM synthetic rubber with integral glass-fibre reinforcement. The underside has a polymer-modified bitumen layer with additional fine-quartz sanding.

RESITRIX[®] CL

PRODUCT SPECIFIC PROPERTIES:

- CE certification according to DIN EN 13956 and DIN EN 13967
- Meets the requirements under DIN 18531, the specialist rule for sealing applications (flat-roof guideline) and DIN 18195 and their subsequent standards DIN 18532, DIN 18533, DIN 18534 and DIN 18535

THE FOLLOWING INSTALLATION VARIANTS ARE POSSIBLE:

- Strip bonding using polyurethane adhesive PU-LMF-02
- Full-surface bonding using hot bitumen
- Mechanical fixing (no standard design)
- Loose installation using ballast (no standard design)



Please refer to RESITRIX[®] specification guidelines or RESITRIX[®] installation instructions for detailed substrate requirements and installation instructions.

MATERIAL PROPERTIES

OVERALL THICKNESS:	3.1 mm -5% / +10%	WIDTH SUPPLIED:	1,000 mm (cut strips on request)
WEIGHT PER UNIT AREA:	3.5 kg/m ² -5% / +10%	STORAGE LIFE:	24 months in original packaging
STANDARD DELIVERY LENGTH PER ROLL:	10 m		

PHYSICAL PROPERTIES

TEST CRITERIA	TARGET VALUE	ACTUAL VALUE
Tensile strength acc. to DIN EN 12311-2	longitudinal: ≥ 250 N/50 mm transverse: ≥ 200 N/50 mm	361 N/50 mm 333 N/50 mm
Elongation at break acc. to DIN EN 12311-2	longitudinal: ≥ 300% transverse: ≥ 300%	600% 600%
Dimensional change after 6 hours at 80 °C acc. to DIN EN 1107-2	longitudinal: ≤ 0.5% transverse: ≤ 0.5%	+ 0.1% + 0.2%
Cold bending test at -30 °C acc. to DIN EN 1109 / DIN EN 495-5	No tears	No tears
Ozone resistance after 14 days in water acc. to DIN EN 1844	Grade 0	Grade 0
Joints	• peel strength acc. to DIN EN 12316-2 • shear strength acc. to DIN EN 12317-2	≥ 80 N/50 mm ≥ 200 N/50 mm 170 N /50 mm 700 N /50 mm
Water vapour diffusion resistance index (μ) acc. to DIN EN 1931		approx. 58,000
Property class acc. to DIN 18531		E1
Building material class acc. to DIN 4102, Part 1	B2	B2
Reaction to fire acc. to DIN EN 13501, Part 1	Class E	Class E
Fire behaviour acc. to DIN 4102, Part 7 and DIN CEN/TS 1187	Resistant to flying sparks and radiating heat	Resistant to flying sparks and radiating heat

PRODUCT CODE

10077205

Mechanically fixed waterproofing membrane

ESPECIALLY FOR MECHANICAL FIXING

RESITRIX[®] MB is especially designed for mechanical fixing. It is a waterproofing membrane that can be welded using hot air and is based on EPDM synthetic rubber with integral glass-fibre reinforcement. The underside has a polymer-modified bitumen layer with PE film.



RESITRIX[®] MB

PRODUCT SPECIFIC PROPERTIES:

- CE certification according to EN 13956 and DIN EN 13967
- Meets the requirements under DIN 18531, the specialist rule for sealing applications (flat-roof guideline) and DIN 18195 and their subsequent standards DIN 18532, DIN 18533, DIN 18534 and DIN 18535

THE FOLLOWING INSTALLATION VARIANTS ARE POSSIBLE:

- Mechanical fixing
- Loose installation using ballast



Please refer to RESITRIX[®] specification guidelines or RESITRIX[®] installation instructions for detailed substrate requirements and installation instructions.

MATERIAL PROPERTIES

OVERALL THICKNESS:	3.1 mm -5% / +10%	WIDTH SUPPLIED:	1,000 mm (cut strips on request)
WEIGHT PER UNIT AREA:	3.5 kg/m ² -5% / +10%	STORAGE LIFE:	24 months in original packaging
STANDARD DELIVERY LENGTH PER ROLL: 10 m			

PHYSICAL PROPERTIES

TEST CRITERIA	TARGET VALUE	ACTUAL VALUE
Tensile strength acc. to DIN EN 12311-2	longitudinal: ≥ 250 N/50 mm transverse: ≥ 200 N/50 mm	361 N/50 mm 333 N/50 mm
Elongation at break acc. to DIN EN 12311-2	longitudinal: ≥ 300% transverse: ≥ 300%	600% 600%
Dimensional change after 6 hours at 80 °C acc. to DIN EN 1107-2	longitudinal: ≤ 0.5% transverse: ≤ 0.5%	+ 0.1% + 0.2%
Cold bending test at -30 °C acc. to DIN EN 1109 / DIN EN 495-5	No tears	No tears
Ozone resistance after 14 days in water acc. to DIN EN 1844	Grade 0	Grade 0
Joints	• peel strength acc. to DIN EN 12316-2 • shear strength acc. to DIN EN 12317-2	≥ 80 N/50 mm ≥ 200 N/50 mm 170 N/50 mm 700 N/50 mm
Water vapour diffusion resistance index (μ) acc. to DIN EN 1931		approx. 58,000
Property class acc. to DIN 18531		E1
Building material class acc. to DIN 4102, Part 1	B2	B2
Reaction to fire acc. to DIN EN 13501, Part 1	Class E	Class E
Fire behaviour acc. to DIN 4102, Part 7 and DIN CEN / TS 1187	Resistant to flying sparks and radiating heat	Resistant to flying sparks and radiating heat

PRODUCT CODE

10078570

Self-adhesive waterproofing membrane

SELF-ADHESIVE AND ROOT-RESISTANT ACROSS THE FULL SURFACE

RESITRIX[®] SK W Full Bond is a waterproofing, heat weldable and glass-reinforced, composite rubber membrane with an EPDM core. The underside is fully coated with self-adhesive polymer modified bitumen, with a detachable release film.



RESITRIX[®] SKW Full Bond

PRODUCT SPECIFIC PROPERTIES:

- CE certification according to DIN EN 13967 and DIN EN 13956
- Root-resistant according to the FLL test report of the University of Applied Sciences Weihenstephan and DIN EN 13948
- Meets the requirements under DIN 18531, the specialist rule for sealing applications (flat-roof guideline) and DIN 18195 and their subsequent standards DIN 18532, DIN 18533, DIN 18534 and DIN 18535

THE FOLLOWING INSTALLATION VARIANTS ARE POSSIBLE:

- Self-adhesive on full-surface primers
- With additional mechanical fixing, including mounting tacking



Please refer to RESITRIX[®] specification guidelines or RESITRIX[®] installation instructions for detailed substrate requirements and installation instructions.

MATERIAL PROPERTIES

OVERALL THICKNESS:	2.5 mm -5% / +10%	WIDTH SUPPLIED:	1,000 mm (cut strips on request)
WEIGHT PER UNIT AREA:	2.75 kg/m ² -5% / +10%	STORAGE LIFE:	24 months in original packaging
STANDARD DELIVERY LENGTH PER ROLL:	10 m		

PHYSICAL PROPERTIES

TEST CRITERIA	TARGET VALUE	ACTUAL VALUE
Tensile strength acc. to DIN EN 12311-2	longitudinal: ≥ 250 N/50 mm transverse: ≥ 200 N/50 mm	361 N/50 mm 333 N/50 mm
Elongation at break acc. to DIN EN 12311-2	longitudinal: ≥ 300% transverse: ≥ 300%	600% 600%
Dimensional change after 6 h at 80 °C acc. to DIN EN 1107-2	longitudinal: ≤ 0.5% transverse: ≤ 0.5%	+ 0.1% + 0.2%
Cold bending test at -30 °C acc. to DIN EN 1109 / DIN EN 495-5	No tears	No tears
Ozone resistance after 14 days in water acc. to DIN EN 1844	Grade 0	Grade 0
Joints	• peel strength acc. to DIN EN 12316-2 • shear strength acc. to DIN EN 12317-2	≥ 80 N/50 mm ≥ 200 N/50 mm
Water vapour diffusion resistance index (μ) acc. to DIN EN 1931		approx. 58,000
Property class acc. to DIN 18531		E1
Building material class acc. to DIN 4102, Part 1	B2	B2
Reaction to fire acc. to DIN EN 13501, Part 1	Class E	Class E
Fire behaviour acc. to DIN 4102, Part 7 and DIN CEN / TS 1187	Resistant to flying sparks and radiating heat	Resistant to flying sparks and radiating heat

PRODUCT CODE

10109557

Self-adhesive waterproofing membrane

PARTIALLY SELF-ADHESIVE 3-IN-1 WATERPROOF MEMBRANE

RESITRIX[®] SK Partial Bond is a heat weldable and glass-reinforced, composite rubber membrane with an EPDM core. The underside is partially coated with self-adhesive polymer modified bitumen, with a detachable release film.



RESITRIX[®] SK Partial Bond

PRODUCT SPECIFIC PROPERTIES:

- CE certification acc. to DIN EN 13956 and DIN EN 13967
- Meets the requirements under DIN 18531, the specialist rule for sealing applications (flat-roof guideline) and DIN 18195 and their subsequent standards DIN 18532, DIN 18533, DIN 18534 and DIN 18535

THE FOLLOWING INSTALLATION VARIANTS ARE POSSIBLE:

- Partially self-adhesive on full-surface primers



Please refer to RESITRIX[®] specification guidelines or RESITRIX[®] installation instructions for detailed substrate requirements and installation instructions.

MATERIAL PROPERTIES

OVERALL THICKNESS:	2.5 mm -5% / +10%	WIDTH SUPPLIED:	1,000 mm
WEIGHT PER UNIT AREA:	2.75 kg/m ² -5% / +10%	STORAGE LIFE:	24 months in original packaging
STANDARD DELIVERY LENGTH PER ROLL:	10 m		

PHYSICAL PROPERTIES

TEST CRITERIA	TARGET VALUE	ACTUAL VALUE
Tensile strength acc. to DIN EN 12311-2	longitudinal: ≥ 250 N/50 mm transverse: ≥ 200 N/50 mm	361 N/50 mm 333 N/50 mm
Elongation at break acc. to DIN EN 12311-2	longitudinal: ≥ 300% transverse: ≥ 300%	600% 600%
Dimensional change after 6 h at 80 °C acc. to DIN EN 1107-2	longitudinal: ≤ 0.5% transverse: ≤ 0.5%	+ 0.1% + 0.2%
Cold bending test at -30 °C acc. to DIN EN 1109 / DIN EN 495-5	No tears	No tears
Ozone resistance after 14 days in water acc. to DIN EN 1844	Grade 0	Grade 0
Joints • peel strength acc. to DIN EN 12316-2 • shear strength acc. to DIN EN 12317-2	≥ 80 N/50 mm ≥ 200 N/50 mm	140 N/50 mm 570 N/50 mm
Water vapour diffusion resistance index (μ) acc. to DIN EN 1931		approx. 58,000
Property class acc. to DIN 18531		E1
Building material class acc. to DIN 4102, Part 1	B2	B2
Reaction to fire acc. to DIN EN 13501, Part 1	Class E	Class E
Fire behaviour acc. to DIN 4102, Part 7 and DIN CEN / TS 1187	Resistant to flying sparks and radiating heat	Resistant to flying sparks and radiating heat

PRODUCT CODE

60122176

ALUTRIX®

In ALUTRIX® 600 and ALUTRIX® FR, we offer effective self-adhesive vapour barrier membranes. These have been developed for the special challenges of profiled steel sheets. They have an above-average high tear strength and are therefore puncture resistant and can be walked on. In addition to their vapour barrier function, they simultaneously also form an airtight layer according to the German Energy Conservation Act. The use of ALUTRIX® steam barriers is easily possible on damp-proof construction such as breweries, swimming pools, sports halls, kitchens or bathrooms.



Effective vapour barrier

EVEN FOR PHYSICALLY EXTREMELY DEMANDING ROOF CONSTRUCTIONS

ALUTRIX® 600 and ALUTRIX® FR are vapour barrier membranes that are quick to install, self-adhesive and extremely resistant. They consist of a reinforced aluminium material with a self-adhesive reverse side and detachable release film. Both vapour barriers are particularly suitable for use on profile steel sheets.



PROPERTIES:

- Cold self-adhesive
- Vapour-tight
- Puncture-resistant and can be walked on
- Above-average tear resistance
- Forms an air-tight layer according to the German Energy Conservation Act
- Resistant to chemical and ageing

PRODUCT-SPECIFIC PROPERTIES:

- CE certification and DIN EN 13970
- ALUTRIX® FR – Fire load reduced according to DIN 18234 or industrial buildings directive
- **ALUTRIX® FR meets the FM Standard Class No.4470**
- **ALUTRIX® 600 complies with the requirements for Class 0**



Please refer to our product specification guidelines or ALUTRIX® installation instructions for detailed substrate requirements and installation instructions.

APPLICATIONS	ALUTRIX® 600	ALUTRIX® FR	FG 35	FG 35 PERCENTAGE OF AREA/ CONSUMPTION	
INFORMATION FOR SURFACE BONDING *	Metallic materials:				
	• Galvanized or uncoated substrates	Yes	Yes	Yes	50 %/ 100 g/m²
	• Plastic coated substrates	Yes	Yes	No	---
	Timber/ Timber materials	Yes	Yes	Yes	50 %/ 100 g/m²
	Concrete materials without deck	Yes **	No	Yes	50 %/ 100 g/m²
Bituminous materials	Yes	Yes	Yes	50 %/ 100 g/m²	

*) Ideally, a primer is not used within the roof area for loosely laid roof structures with mechanical fixation or ballasting.
 **) On dry, smooth and clean concrete materials only. Mechanical damage or perforations must be avoided.

PRODUCT CODE
65000746

MATERIAL DETAILS	TEST PROCEDURE	ALUTRIX® 600	ALUTRIX® FR
THICKNESS	DIN EN 1849-2	0.6 mm	0.4 mm
WEIGHT	DIN EN 1849-2	approx. 700 g/m²	approx. 300 g/m²
PACKING UNITS PER PALLET		20 rolls	30 rolls
ROLL LENGTH	DIN EN 1848-2	40 m	40 m
ROLL WIDTH	DIN EN 1848-2	1.08 m	1.08 m
MAXIMUM TENSILE FORCE (LONGITUDINAL/ TRANSVERSE)	DIN EN 12311-2	≥800 / 700 N/5 cm	≥800 / 700 N/5 cm
NEEDLE-TEAR RESISTANCE (LONGITUDINAL/ TRANSVERSE)	DIN EN 12310-1	200 N	200 N
COLD BENDING BEHAVIOUR	DIN EN 495-5	-20 °C	-20 °C
WATER TIGHTNESS AT 4 BAR OVER 72 HOURS	DIN EN 1928	Tight	Tight
SHEAR STRENGTH	DIN EN 12317-2	657 N/5 cm	657 N/5 cm
FIRE BEHAVIOUR	DIN EN 13501-1	Class E	Class E
FIRE CLASSIFICATION	BS476 PART6	Class O	
WATER VAPOUR PERMEABILITY SD VALUE	DIN EN 1931	> 1,500 m	> 1,500 m
VISIBLE DEFECTS	DIN EN 1850-1	None	None
RESISTANCE TO CHEMICALS	DIN EN 1847/ 1928	Passed	Passed
RESISTANCE TO ARTIFICIAL AGEING	DIN EN 1296	Passed	Passed
SHOCK LOADING (PROCEDURES A AND B)	DIN EN 12691	150 and 1,500 mm	150 and 1,500 mm
RESISTANCE TO STATIC LOADING (PROCEDURES A AND B)	DIN EN 12730	20 kg and 20 kg	20 kg and 20 kg
HEATING VALUE / FUEL VALUE	DIN 51900-1	No requirement	≤ 10,500 kJ/m² ≤ 11,600 kJ/m²
FM APPROVAL	FM Standard Class No. 4470	No requirement	Class 1

RESITRIX® accessories and applications

Each flat roof is different: they have their own corners and edges, obstacles, special installation requirements or visual design requirements etc. For precisely this reason we have a range of comprehensive accessories whose components are ideally tailored to each other.



Stainless steel accessories

FOR EVERY FLAT ROOF



Whether new build or renovation – RESITRIX® stainless steel accessories are suitable for every application and are quick and secure to install.

Heavy and once-in-a-lifetime rainstorms are continually increasing due to climate change. This is why drainage elements are some of the most important system add-ons. Roof penetrations are the most critical parts of a flat roof; indeed, they are essential. Accordingly, the demands on drainage systems and roof penetrations are particularly high. In our RESITRIX® drainage accessories, we can provide the perfect addition to our range of extremely durable roof-sealing systems. All of the components are ideally tailored to each other.

RESITRIX® drainage accessories consist of versatile corrosion and acid-resistant stainless steel elements. These already have factory-fitted EPDM sleeves made from self-adhesive RESITRIX® SKW Full Bond. This makes a watertight connection to the surface sealing particularly quick and easy. The range includes the right element for every drainage situation.

An overview of the benefits:

- Safe installation with no fire risk, thanks to hot air welding
- Simple installation without special tools
- A service life of decades
- Stainless steel is not sensitive to acids or cold, and is extremely heat resistant
- Safe, complete solution
- TÜV tested
- Fire protection acc. to DIN 18234



Stainless steel accessories



OVERFLOW DRAINS

DESCRIPTION	STRUCTURE	EXTERNAL Ø	OTHER PARAMETERS
1. CCM OVERFLOW DRAIN, VERTICAL, ONE PIECE	 Extension element with level base plate and factory connection sleeve, retaining element and 3 retaining rings.	110 mm	Length of extension element: 400 or 600 mm
2. CCM OVERFLOW DRAIN, ANGLED	 Horizontally angled run-off connector with level base plate and factory connection sleeve, retaining element and 3 retaining rings. Arrangement for lateral continuation within the thermal insulation and through the wall / parapet.	110 mm	Length of run-off connector: 730 mm

DRAINAGE ELEMENTS

DESCRIPTION	STRUCTURE	EXTERNAL Ø	OTHER PARAMETERS
3. CCM ROOF DRAIN, VERTICAL, TWO PIECE, WITH SLEEVE	 Thermally-insulated base element with level base plate, extension element with level base plate and factory connection sleeve.	75, 110, 125, 160 mm	Length of base element: 280 mm
4. CCM RENOVATION DRAIN / ONE PIECE EXTENSION ELEMENT	 Extension element with level base plate and factory connection sleeve.	50, 63, 75, 90, 110, 125, 145, 160 mm	Length of extension element: 400 or 600 mm
5. CCM ROOF DRAIN, ANGLED, WITH SLEEVE	 Roof drain with level base plate and factory connection sleeve; arrangement for lateral continuation within the thermal insulation.	50, 63, 75, 90, 110 mm	Length of run-off connector: 460 mm

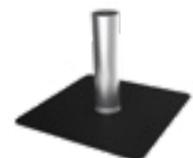
DRAINAGE ELEMENTS

DESCRIPTION	STRUCTURE	EXTERNAL Ø	OTHER PARAMETERS
6. CCM PARAPET DRAIN		Parapet drain with level base plate and factory connection sleeve; arrangement for lateral continuation within the thermal insulation layer and through the wall.	110 mm
7. CCM PARAPET DRAIN, WITH ANGLED BASE PLATE		Horizontal run-off connector with angled base plate and factory connection sleeve. The run-off connector is run on the top edge of the roof seal directly through the wall / parapet.	50, 75, 90, 110 mm Length of run-off connector: 400 or 600 mm

DESCRIPTION	8.1 UNIVERSAL	8.2 M	8.3 HORIZONTAL	EXTERNAL Ø
8. CCM LEAF CATCHER				50-160 mm

VENT PIPES

DESCRIPTION	STRUCTURE	EXTERNAL Ø	OTHER PARAMETERS
9. CCM VENT PIPE		Vent pipe with level base plate and factory connection sleeve.	40, 63, 75, 90 mm

10. CCM RENOVATION VENT PIPE		Renovation vent pipe with level base plate and factory connection sleeve.	90/40, 90/60, 110/75, 125/90 mm
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ADDITIONS TO STAINLESS-STEEL ACCESSORIES

DESCRIPTION	STRUCTURE	EXTERNAL Ø	OTHER PARAMETERS
11. CCM EXTENSION PIPES		50, 63, 75, 90, 110, 125, 145, 160 mm	Length: 300 and 600 mm
12. CCM VAPOUR-BARRIER PLATE		50, 63, 75, 90, 110, 125, 145, 160 mm	
13. CCM VENT PIPE PROTECTION HOOD		Protective hood against driving rain.	50, 63, 75, 90, 110, 125, 145, 160 mm
14. CCM EXTRACTOR PIPE HOOD		Protective hood against driving rain.	50, 63, 75, 90, 110, 125, 145, 160 mm

Stainless steel accessories – Product codes

ITEM	DESCRIPTION	Ø IN mm	LENGTH IN mm		PRODUCT CODE (FOR LENGTH)	
			400 mm	600 mm	400 mm	600 mm
1.	CCM OVERFLOW DRAIN, VERTICAL, ONE PIECE	110	400	600	65003029	65003030

ITEM	DESCRIPTION	Ø IN mm	LENGTH IN mm	PRODUCT CODE
2.	CCM OVERFLOW DRAIN, ANGLED	110	730	65003031

ITEM	DESCRIPTION	Ø IN mm	LENGTH IN mm	PRODUCT CODE
3.	CCM ROOF DRAIN, VERTICAL, TWO PIECE, WITH SLEEVE	75	280	65003016
		110	280	65003017
		125	280	65003018
		160	280	65003019

ITEM	DESCRIPTION	Ø IN mm	LENGTH IN mm		PRODUCT CODE (FOR LENGTH)	
			400 mm	600 mm	400 mm	600 mm
4.	CCM RENOVATION DRAIN/ONE PIECE EXTENSION ELEMENT, WITH SLEEVE	50	400	600	65002989	65002993
		63	400	600	65002994	65002995
		75	400	600	65002996	65002997
		90	400	600	65002998	65002999
		110	400	600	65003000	65003001
		125	400	600	65003002	65003003
		145	400	600	65003004	65003005
		160	400	600	65003006	65003007

ITEM	DESCRIPTION	Ø IN mm	PRODUCT CODE
5.	CCM ROOF DRAIN, ANGLED, WITH SLEEVE	50	65003023
		63	65003024
		75	65003025
		90	65003026
		110	65003027

ITEM	DESCRIPTION	Ø IN mm	PRODUCT CODE
6.	CCM PARAPET DRAIN	110	65003028

ITEM	DESCRIPTION	Ø IN mm	LENGTH IN mm		PRODUCT CODE (FOR LENGTH)	
			400 mm	600 mm	400 mm	600 mm
7.	CCM PARAPET DRAIN, WITH ANGLED BASE PLATE	50	400	600	65003008	65003009
		75	400	600	65003010	65003011
		90	400	600	65003012	65003013
		110	400	600	65003014	65003015

ITEM	DESCRIPTION	Ø IN mm	PRODUCT CODE
8.	8.1 CCM LEAF CATCHER UNIVERSAL	50 – 160	65003033
	8.2 CCM LEAF CATCHER M	50 – 160	65003032
	8.3 CCM LEAF CATCHER HORIZONTAL	50 – 160	65003034

ITEM	DESCRIPTION	Ø IN mm	PRODUCT CODE	
			400 mm	600 mm
9.	CCM VENT PIPE	40	65003035	
		63	65003036	
		75	65003037	
		90	65003038	

ITEM	DESCRIPTION	Ø IN mm	PRODUCT CODE
10.	CCM RENOVATION VENT PIPE	90/40	65003039
		90/60	65003040
		110/75	65003041
		125/90	65003042

ITEM	DESCRIPTION	Ø IN mm	LENGTH IN mm		PRODUCT CODE (FOR LENGTH)	
			300 mm	600 mm	300 mm	600 mm
11.	CCM EXTENSION PIPES	50	300	600	65003069	65003070
		63	300	600	65003071	65003072
		75	300	600	65003073	65003074
		90	300	600	65003075	65003076
		110	300	600	65003077	65003078
		125	300	600	65003079	65003080
		145	300	600	65003081	65003082
		160	300	600	65003083	65003084

ITEM	DESCRIPTION	Ø IN mm	PRODUCT CODE
12.	CCM VAPOUR BARRIER PLATE	50	65003098
		63	65003099
		75	65003100
		90	65003101
		110	65003102
		125	65003103
		145	65003104
160	65003105		

ITEM	DESCRIPTION	Ø IN mm	PRODUCT CODE
13.	CCM VENT PIPE PROTECTION HOOD	50	65003043
		63	65003044
		75	65003045
		90	65003046
		110	65003047
		125	65003048
		145	65003049
		160	65003050

ITEM	DESCRIPTION	Ø IN mm	PRODUCT CODE
14.	CCM EXTRACTOR PIPE HOOD	50	65003051
		63	65003052
		75	65003053
		90	65003054
		110	65003055
		125	65003056
		145	65003057
		160	65003058

RESIFLEX[®] SK

The expansion joint sealing strip

**SELF-ADHESIVE, BITUMEN TOLERANT
EXPANSION-JOINT SEALING STRIPS**

RESIFLEX[®] SK is a self-adhesive, expansion joint sealing strip based on EPDM synthetic rubber and contains integral glass-fibre reinforcement in the outer edge areas. RESIFLEX[®] SK is not reinforced in the expansion zone. The underside is equipped with a self-adhesive, polymer-modified bitumen layer, protected by a detachable release film.

PRODUCT PROPERTIES

- RESIFLEX[®] SK can be permanently bonded with all RESITRIX[®] waterproof membranes. Connection with other material types may only be carried out after consultation with our Technical Department.
- RESIFLEX[®] SK meets DIN 4102, Sheet 1 (Building Material Class B2) and Class E acc. to DIN EN 13501-1.
- RESIFLEX[®] SK is CE-certified acc. to DIN EN 13956 and DIN EN 13967.

APPLICATIONS

- Expansion-joint sealing strips for the construction of expansion joints, particularly in the area of unused roof constructions and those that can be walked on, as well as components that touch the ground.
- RESIFLEX[®] SK can also be used in the transition zones of horizontal to vertical joints and within valley areas. RESIFLEX[®] SK cannot be used in areas where loose and fixed flange constructions are required.



RESIFLEX[®] SK

INSTALLATION INSTRUCTIONS

Ideally, RESIFLEX is arranged on the roof membrane to be installed, whereby the roof membrane is interrupted above the joint. RESIFLEX[®] SK is self-adhesive and is applied after full-surface priming using FG35 and an appropriate airing time. RESIFLEX[®] SK must be hot-air welded to a width of at least 40 mm on the edge of the expansion-joint sealing strip. The non reinforced expansion zone is above the joint and remains unbonded. If required as a result of construction progress,

RESIFLEX[®] SK can also be installed before fitting the roof membrane. Here, self adhesion after priming with surface primer FG35 is sufficient, without welding the edges of the strips. The construction of cross-joints and T-joints requires the additional use of RESIFLEX 3D.

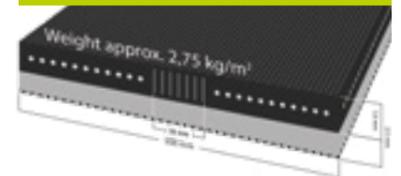
STORAGE

12 months in original packaging

MATERIAL PROPERTIES

OVERALL THICKNESS	2.5 mm-5% / +10%
TOTAL WIDTH	500 mm ± 0,8%
WIDTH OF NON-REINFORCED EXPANSION ZONE	80 mm ± 10%
TOTAL MASS	approx. 2.75 kg/m ²
ROLL LENGTH	10 m

STRUCTURE



- EPDM + glass fibre reinforcement with integrated bonding courses
- Glass fibre reinforcement
- polymer-modified bitumen
- PE film

PRODUCT CODE

60125168



When handling our products, please follow the information on our EC safety data sheets and the safety information on our container labels.

PHYSICAL PROPERTIES OF THE UN-REINFORCED EXPANSION ZONE

Tear-resistance acc. to DIN EN 12311-B (N/mm ²)	l: 6.1	t: 6.3
Elongation at tear acc. to DIN EN 12311-B (%)	l: 506	t: 584
Resistance to tear propagation acc. to DIN EN 12310-2 (N)	l: 30	t: 36
Water tightness acc. to DIN EN 1928-B (bar)	4	
Peel strength within the cross-seams acc. to DIN EN 12316-2 (N/50 mm)	139	
Cohesive resistance within the cross-seams acc. to DIN EN 12317-2 (N/50 mm)	369	
UV resistance acc. to DIN EN 1297	Met	

PHYSICAL PROPERTIES OF THE REINFORCED EXPANSION AREAS:

Maximum tensile load acc. to DIN EN 12311-2-A (N/50 mm)	l: 600	t: 555
Dimensional change after 6 hours at 100 °C acc. to DIN EN 1107-2 (%)	l: 0.0	t: 0.05
Peel strength of joint seam acc. to DIN EN 12316-2 (N/50 mm)	378	
Cohesive resistance of joint seam acc. to DIN EN 12317-2 (N/50 mm)	328	

l: longitudinal t: transverse

RESIFLEX® 3D

The 3D expansion joint sealing strip

PROFESSIONAL CROSS-JOINT AND T-JOINT SEALING

One particular feature in constructing movement joints for which RESIFLEX® SK has already proven itself is the sealing of cross- and T-joints. We have now been able to develop our own unique product for this challenging application: RESIFLEX® 3D.

PRODUCT PROPERTIES

The special thing about RESIFLEX® 3D is that it is completely non-reinforced and can thus easily absorb and compensate for the three-dimensional movements – primarily at the crossing point. In this, RESIFLEX® 3D mainly makes use of the extremely high-level expansion properties of the EPDM material (up to 500%). The 33 x 33 cm RESIFLEX® 3D piece (cut to size as required) returns to its resting state after loading. The material properties are retained. It moves in all directions and simultaneously guarantees a permanently reliable seal.

APPLICATIONS

- RESIFLEX® 3D and RESIFLEX® SK for the construction of expansion joints, particularly in the area of unused roof constructions and roofs that can be walked on, as well as components that touch the ground.
- RESIFLEX® 3D supports RESIFLEX® SK in the construction of critical cross-joints and T-joints.



STRUCTURE

The non-reinforced waterproofing membrane consists of a layer of EPDM and a special adhesive layer. The surface is textured (structured). This familiar RESITRIX® surface allows the RESIFLEX® 3D to be welded to RESIFLEX® SK sealing material. The sealing material of RESIFLEX® SK is warmed using a hot-air gun and bonded to the RESIFLEX® 3D surface. The weld bead produced during bonding is used as a visual check. T- and cross-seams of expansion joints can be sealed using a combination of RESIFLEX® SK/3D. Three-dimensional movements at the cross-point can be absorbed unrestrictedly.

Resiflex® 3D

INSTALLATION | USE

Fix RESIFLEX® 3D sealing (33 x 33 cm) centred over a T- or cross abutment.

Then RESIFLEX® SK is welded on as usual using hot air.



When handling our products, please follow the information on our EC safety data sheets and the safety information on our container labels. In particular, please observe the regulations of the Ordinance on Hazardous Substances and the regulations on accident prevention in the employer's trade association.

(As at January 2016)

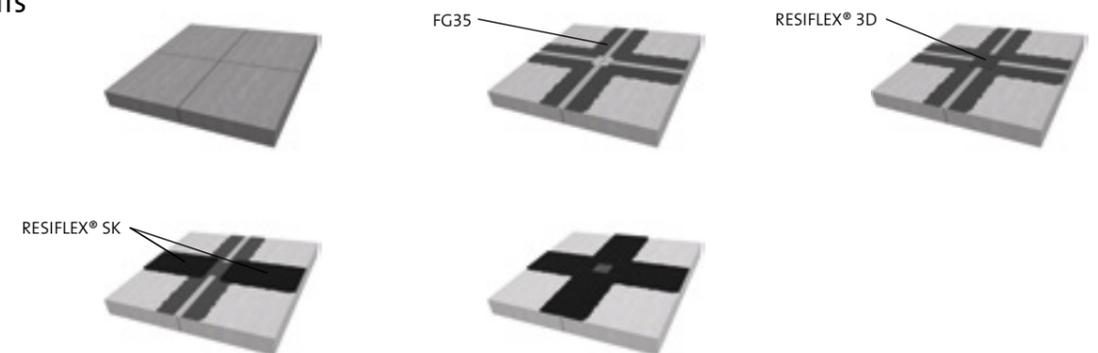
MATERIAL PROPERTIES

NOMINAL THICKNESS	1.4 mm -5% / +10%
TOTAL WIDTH	330 mm ± 0,8%
ROLL LENGTH	5 m
MATERIAL REINFORCEMENT	None

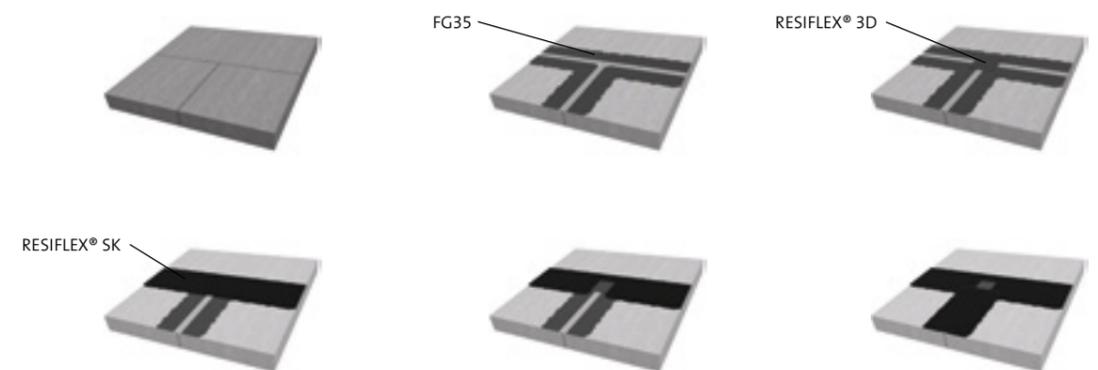
DELIVERY UNIT

Individual roll

CROSS-JOINTS

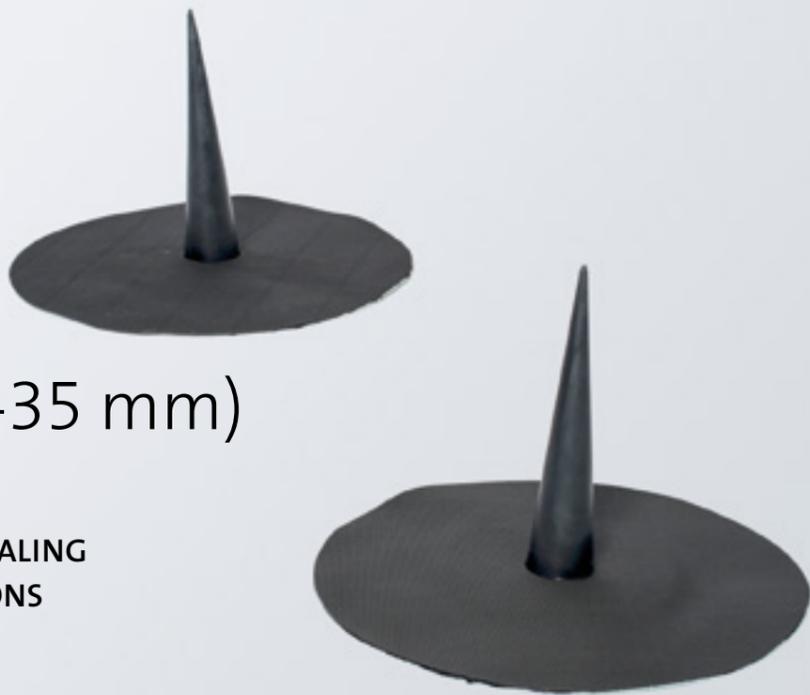


T-JOINTS



Pipe sleeve (5-35 mm)

EPDM SHAPED PARTS FOR SEALING CIRCULAR ROOF PENETRATIONS



EPDM shaped part for slipping over and sealing in roof penetrations with a round cross-section and diameters of 5 to 35 mm. The connecting collar consists of a circular piece of RESITRIX® SK W Full Bond with a diameter of up to 30 cm.

APPLICATIONS

- All RESITRIX® seals without primer
- Liquid-applied plastic systems that do not contain softeners using FG 35 surface primer
- If your application is not stated, please contact our Technical Department



Pipe sleeve (5-35 mm)

WORK PREPARATION

The surfaces to be bonded must be dry, clean and free from dust and grease.

INSTALLATION

The connection collar is tightly bonded with the roof sealing using hot-air welding only. The weld width is at least 50 mm.

Before the sleeve can be slipped on the roof penetration, the upper side must be cut or reduced to fit correctly. The correct cutting point is determined as follows: First turn the pipe sleeve and then place it in the penetration. Mark the point at which the sleeve stops flush with the roof penetration. The cutting point is 2 cm above this mark.

In the case of closed penetrations, select the cutting point so that the diameter of the cut pipe sleeve is 2 cm smaller than the penetration. This ensures that over a width of 2cm, the pipe sleeve lies flush with the penetration as required.

Then the RESITRIX® pipe sleeve is pulled tight over the penetration, pressed into shape with the roof penetration at the top using a stainless steel strap and thus protected against water or splashes running behind it. When using heat-shrinkable tubing as an extension, there is no need to utilise the strap for protection.

MATERIAL PROPERTIES	
NOMINAL THICKNESS	2.5 mm -5% / +10%
TOTAL WIDTH	300 mm ± 0,8%
FOR DUCTS, CROSS-SECTION	5-35 mm

PRODUCT CODE	
65000846	



When handling our products, please follow the information on our EC safety data sheets and the safety information on our container labels.

Pipe sleeve (35-100 mm)

EPDM SHAPED PARTS FOR SEALING CIRCULAR ROOF PENETRATIONS



EPDM shaped part for slipping over and sealing in roof penetrations with a round cross-section and diameters of 35 to 100 mm. The connecting collar consists of a circular piece of RESITRIX® SK W Full Bond with a diameter of 50 cm.

APPLICATIONS

- All RESITRIX® seals without primer
- Liquid-applied plastic systems that do not contain softeners using FG 35 surface primer
- If your application is not stated, please contact our Technical Department



Pipe sleeve (35–100 mm)

WORK PREPARATION

The surfaces to be bonded must be dry, clean and free from dust and grease.

INSTALLATION

The connection collar is tightly bonded with the roof sealing using hot-air welding only. The weld width is at least 4 cm.

Before the sleeve can be slipped on the roof penetration, the upper side must be cut or reduced to fit correctly. The correct cutting point is determined as follows: First turn the pipe sleeve and then place it in the penetration. Mark the point at which the sleeve stops flush with the roof penetration. The cutting point is 2 cm above this mark.

In the case of closed penetrations,

select the cutting point so that the diameter of the cut pipe sleeve is 2 cm smaller than the penetration. This ensures that over a width of 2cm, the pipe sleeve lies flush with the penetration as required.

Then the RESITRIX® pipe sleeve is pulled tight over the penetration, pressed into shape with the roof penetration at the top using a stainless-steel strap and thus protected against water or splashes running behind it.

MATERIAL PROPERTIES	
NOMINAL THICKNESS	2.5 mm -5% / +10%
TOTAL WIDTH	500 mm ± 0,8%
WIDTH FOR DUCTS, CROSS-SECTION	35-100 mm

PRODUCT CODE	
65002663	



When handling our products, please follow the information on our EC safety data sheets and the safety information on our container labels.

Ready made detailing components

FASTER SEALING USING PREFORMED PARTS

There are special ready made punched parts for sealing round fitted parts and for constructing any corners. The cut pieces are punched from the RESIFLEX® SK self adhesive expansion-joint sealing strip.

CUT PIECES

- Closed circle for inner corners



- Notched circle for outer corners



- Tongue, oval, addition for inner and outer corners



BENEFITS

- The notched punched parts do not have any reinforced inlay within the expansion zones. There is therefore no need to manually destroy any inlay before installation.
- When correctly placed, the installation of flat cut pieces lets you construct corner areas irrespective of their arrangement or angularity.
- It is possible to stretch the material, but a reduction in the material thickness of free-lying areas is avoided, unlike with plastic shaped parts. The material properties are thus fully maintained.
- As in RESITRIX® waterproofing membrane, the emergence of an even welding bead on all cut pieces during hot-air welding guarantees visual reassurance of the 100% tightness of the seam.
- Shaped parts do not have to be initially cut to size by hand; this makes working more efficient.

Ready made detailing components

INSTALLATION / FITTING CONDITIONS

The cut pieces have a minimum width of 19 cm. Their edges have to be rounded off.

Their full surface has to be welded using hot air.

Seam welding is possible down to -10 °C.

STORAGE

In their original packaged condition, parts can be stored for 12 months.

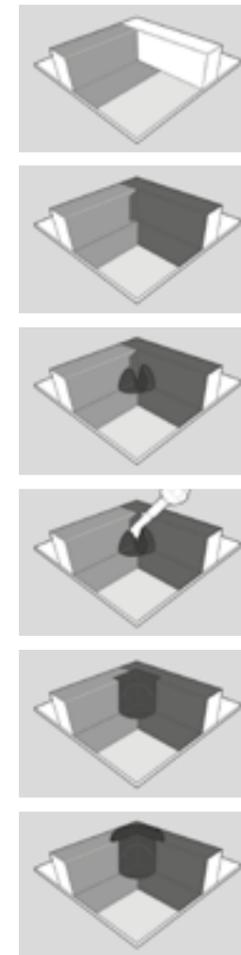
The cut pieces and their installation within the entire corner construction are shown in the following illustrations. Additional supplementary cut pieces may be required if necessary.

PRODUCT CODE	
CLOSED CIRCLE FOR INNER CORNERS	60126506
NOTCHED CIRCLE FOR OUTER CORNERS	65003133
TONGUE, OVAL, ADDITION FOR INNER AND OUTER CORNERS	60126505

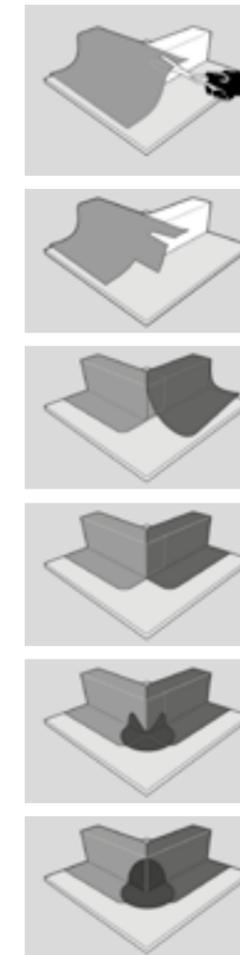


When handling our products, please follow the information on our EC safety data sheets and the safety information on our container labels.

INNER CORNER



OUTER CORNER



Lightning conductor clips

TO SECURE LIGHTNING CONDUCTOR TAPE TO ROOF SYSTEMS.



Unique recessed rivet to eliminate damage to the membrane.

APPLICATIONS

LIGHTNING CONDUCTOR CLIPS are for securing lightning conductor tape to roof systems.

FEATURES

- UV-Infra red resistant and resistant to a wide range of atmospheric chemicals.
- Easy to use – supplied as a one piece product.
- Accommodate a conductor strip up to 25 mm wide x 5 mm thick.
- Supplied with 100 mm x 100 mm flange for securing to membrane.

LC-RESITRIX®	
FLANGE DESCRIPTION	RESITRIX®
FLANGE SIZE	100 x 100 mm
COLOUR	Black / Light grey



Please contact our sales office for bespoke requirements.

Please apply in accordance with RESITRIX® guidelines.



G500®

Cleaner

DEGREASES AND CLEANS LIGHTLY SOILED SUBSTRATES AND EQUIPMENT

G500 cleaner is suitable for degreasing and cleaning lightly soiled substrates and equipment.

APPLICATIONS

- Degreasing metallic adhesive surfaces
- Cleaning lightly soiled surfaces of RESITRIX® waterproofing membrane and ALUTRIX® aluminium vapour-barrier membranes
- Cleaning equipment and tools
- If your application is not stated, please contact our Technical Department

STORAGE

Storage life when sealed tightly in the original packaging and stored between +5 °C and +25 °C is a maximum of 24 months.

TECHNICAL DATA	
DESCRIPTION	A mixture of flammable, organic solvents
COLOUR	Colourless
CONSISTENCY	Liquid
DENSITY	800 kg/m ³
VISCOSITY	200 mPas
CONSUMPTION	As required

PRODUCT CODE	
4 kg CAN	20009558
0.8 kg CAN	60122174



When handling our products, please follow the information on our EC safety data sheets and the safety information on our container labels.

FG 35®

Surface primer

SOLVENT-CONTAINING PRIMER BASED ON SYNTHETIC RUBBER AND RESINS

FG 35 is a solvent containing primer based on synthetic rubber and resins. FG 35 surface primer is used in combination with self-adhesive RESITRIX® waterproofing membranes and ALUTRIX® vapour barrier membranes on a wide variety of substrates.

APPLICATIONS

For priming substrate surfaces for self-adhesive RESITRIX® waterproofing membranes on:

- Metallic substrates, uncoated
- Bituminous materials
- Wooden materials
- Timber/timber materials
- Plastics
- Insulation boards (apart from unfaced EPS foam boards)

For priming substrate surfaces for ALUTRIX® 600 or ALUTRIX® FR self-adhesive aluminium vapour-barrier membranes on bituminous materials, timber materials and solid materials.

If your application is not stated, please contact our Technical Department.



FG 35

WORK PREPARATION

The substrate must be dry, clean and free from dust and grease. Stir the FG 35 surface primer well before use.

PROCESSING

The processing temperature is between +5 °C and +35 °C. Do not dilute the primer.

Apply FG 35 thinly and evenly on one side and, depending on the application area, either across the entire surface or in places using a sheepskin roller, a brush, a spray canister or a spray can. If using on metal, prior degreasing using G 500 cleaner is required. Remove any flaking paint and areas of corrosion. In the case of transitions to bitumen membranes, any grit present on the top surface must be carefully swept off and removed to the greatest possible extent.

After the FG 35 solvents have evaporated, the self-adhesive membranes are applied into place. The evaporation time depends on the ambient temperature, the thickness applied, the type of application and the absorption of the substrate, and takes around 35 minutes.

CLEANING AGENTS

To degrease adhesive surfaces and clean equipment, we recommend our G 500 cleaner.

STORAGE

Store tightly closed at temperatures between +5 °C and +25 °C and not longer than 12 months. If the primer becomes solid in the cold, place the container in a warm room (at approx +20 °C) shortly before use. Stir the contents of the canister well when applying by hand.

TECHNICAL DATA

BASIS	Synthetic rubber + resins, contains solvents
COLOUR	Black
CONSISTENCY	Liquid, applies easily and can be sprayed
DENSITY	Approx. 840 kg/m ³
VISCOSITY	900 mPas
SOLIDS	35%
CONSUMPTION DEPENDING ON SUBSTRATE	Approx. 300 g/m ² (for full-surface application)

PRODUCT CODE

4 kg	20014803
12,5 kg	20017650
14,4 kg CANISTER	65002651



When handling our products, please follow the information on our EC safety data sheets and the safety information on our container labels.

FG 40

Surface primer

SECURE DIRECT BONDING WITH RESITRIX® SK W ONTO EPS

The FG 40 surface primer allows full-surface, securely positioned direct bonding of the self-adhesive EPDM waterproofing membranes RESITRIX® SK W Full Bond onto unfaced EPS foam boards. This means that significantly higher wind suction forces can be tolerated by the bonded structure than one without a primer.

APPLICATIONS

For full-surface priming of substrate surfaces for direct self-adhesive laying of RESITRIX® SK W Full Bond on thermal insulation made from unfaced polystyrene foam boards without factory fitted bitumen lamination or bitumen deck.

The connections and terminations associated with these roof surfaces can also be formed using RESITRIX® SK W Full Bond in conjunction with FG 40 on the following substrates as full-surface, self-adhesive solutions:

- Metallic substrates
- Bituminous materials
- Timber/timber materials
- Solid materials
- Plastics (other than soft PVC)
- Insulating materials

If your application is not stated, please contact our Technical Department.



FG 40

WORK PREPARATION

The substrate must be dry, clean and free from dust and grease. Shake or roll the (pressurised) container for at least 30 seconds before use.

PROCESSING

FG 40 must not be diluted. It is applied on one side and to the whole of the EPS surface. To ensure even and thin distribution with FG 40, the product is applied exclusively with a spray gun in combination with the FG 40 pressurised container.

The containers must be stored tightly closed at temperatures between +5 °C and +25 °C and not longer than 12 months. If the primer becomes solid in the cold, place the container in a warm room (at approx +20 °C) shortly before use. The evaporation time depends on the ambient temperature and is around 40 minutes. After FG 40 has evaporated, the self-adhesive membranes are rolled out onto the walk-on substrate and the backing film on the underneath removed. The membranes must then be pressed on firmly and across their entire surface using a broom in order to achieve virtually planar installation.

CLEANING AGENTS

To degrease adhesive surfaces and clean equipment, we recommend our G 500 cleaner.

STORAGE

Store tightly closed at temperatures between +5 °C and +25 °C and not longer than 12 months. If the primer becomes solid in the cold, place the container in a warm room (at approx +20 °C) shortly before use.

TECHNICAL DATA

BASE	Contains solvents
COLOUR	Blue
CONSISTENCY	Sprayable liquid
DENSITY AT 20 °C	0,76 g/cm ³
VISCOSITY (BROOKFIELD)	300 CPS
SOLID PARTICLE CONTENT	67,2 %
CONSUMPTION DEPENDING ON SUBSTRATE	Approx. 70 to 100 g/cm ²



When handling our products, please follow the information on our EC safety data sheets and the safety information on our container labels.

Container for the various application versions of FG 35 and FG 40



FG 35 TINS

Our standard solution for priming substrate surfaces for self-adhesive RESITRIX® waterproofing membranes and ALUTRIX® vapour-barrier membranes.

PACKAGING		
Application	Manual	
kg / container	4.5	12.5
Packing unit (items/pallet)	60	33



FG 35 AEROSOL SPRAY CAN

Spray can for use on small and hard-to-access areas for self-adhesive RESITRIX® waterproofing membranes and ALUTRIX® vapour-barrier membranes.

PACKAGING	
Application	Spray
ml / container	750
Packing unit (items/box)	12

PRODUCT CODE	
AEROSOL SPRAY CAN	65003197



FG 35 / FG 40 SPRAY CANISTER

The spray canister for fast and efficient priming of substrate surfaces for self-adhesive RESITRIX® waterproofing membranes and ALUTRIX® vapour-barrier membranes.

PACKAGING	
PRESSURISED CONTAINER (DISPOSABLE)	
Application	spray
kg / container	14.4
HOSE	
3 m (suitable for backpack) or 5 m	



CARLISLE® BACKPACK

The perfect carrying aid for convenient and fast surface priming when applying with a spray canister.

PRODUCT CODE
65003172

Product properties:

- Reinforced and cushioned rear wall
- Carry handle at top
- Shoulder straps padded at the rear and padded waist strap, both closed using plastic quick-release buckles
- Additional strap with quick-release buckle for securing the pressurised container

Surface priming for convenient application and fast drying

Benefits of working with a spray canister or spray can

- Very quick, clean and even application.
- The substrate is evenly wetted across the surface and so dries much more quickly and evenly.
- Consumption is significantly reduced.
- The entire content of the spray is applied directly to the roof – so there is no loss by applying with a sheepskin roller where significant amounts of primer are left on the roller.
- Even after interrupting work overnight, the spray canister can be re-used immediately without cleaning.
- No heavy additional equipment such as compressors have to be transported onto the roof.
- Use of the accurately fitting CARLISLE® backpack additionally increases the working speed and makes work easier.
- Application using a spray can is particularly recommended for small and hard-to-access areas whilst maintaining the above-stated benefits regarding consumption and appearance. The spray processing again reduces the installation time.



FG 35/FG 40 spray applied system

Product description

The spray device is an essential addition to the pressurised containers and allows the direct application of sprayed FG 35 / FG 40 without the need for a compressor or power connection.

The set for priming using the spray canister (mechanical application) consists of:

- 14.4 kg FG 35 / FG 40 pressurised container (disposable)
- Connection hose
- Stainless-steel spray gun including extension (lance)
- CARLISLE® backpack for pressurised container, optional

PRODUCT CODE	
3 m HOSE	LIJMSLANG-DSS-12
5 m HOSE	LIJMSLANG-DSS-18
PISTOL APPLICATION GUN	PISTOOL -DSS
LANCE APPLICATION GUN	PISTOOL -LANS-DSS



Before use

- Ensure that all parts of the spray-system pressurised container (disposable container, connection hose, spray gun and lance) are undamaged and do not have any faults.
- Please shake or roll the pressurised container for at least 30 seconds before use.

Structure and assembly

Screw the individual threaded components together. Make sure that the union nuts are firmly tightened. Close the adjusting nut on the spray gun.

- 1 Pressurised container – spray system with hose and spray gun (including extension).
- 2 Connect the spray gun to the hose, tighten firmly using a union nut.
- 3 Spray gun
- 4 Adjusting nut
- 5 Nozzle
- 6 Connecting hose
- 7 Adjusting nut does not have an end stop!
- 8 Connection of hose to valve of the container
- 9 Rupture joint. Strike to harden the product residue



Use/Handling

- Completely open the valve on the pressurised container before first using the spray canister. Check the system for any leaks.
- Using the adjusting nut on the spray gun, regulate the flow of primer to achieve an even spray distribution.
- The additional use of the backpack prevents the continuous rearranging of the container, thus making work easier.
- After spraying, close the adjusting nut on the spray gun. The valve on the pressurised container remains open until it is completely empty. To maintain its serviceability, clean off any product residue on the nozzle using G 500 cleaner.



Please do not completely open the adjusting nut of the spray gun, as there is no end stop on this. Otherwise the primer would spray out in an uncontrolled manner.

Changing the container

- Only change the container once it is completely empty. An empty state can be identified by the sound of propellant gas emerging. After closing the container valve, unscrew the connecting hose from the container, simultaneously opening the spray gun to relieve the pressure. After closing the adjusting nut on the spray gun, the accessories can be reconnected to a new container.

Disposal:

- Open the valve of the empty pressurised container to reduce the remaining residual pressure. This procedure should be carried out outdoors, as there may be an escape of primer residue. It takes at least 24 hours for the residual pressure to fully reduce. Product residue can harden after opening a rupture joint next to the valve.



Follow your local authority guidelines for safe disposal.

PU-LMF⁰²

The surface adhesive

PU ADHESIVE

PU-LMF-02 PU adhesive is a free-flowing single-component polyurethane adhesive, free from solvents and softeners, specially developed for bonding surfaces of the RESITRIX® CL EPDM waterproofing membrane.

APPLICATIONS

PU-LMF-02 adhesive is used for strip substrate bonding of the RESITRIX® CL waterproofing membrane to:

- Bituminous materials
- EPS foam boards, type DAA-dm or DAA-dh
- Timber/timber materials
- Solid materials
- If your substrate is not mentioned, you have specific and detailed substrate requirements or individual processing requirements, please contact our Technical Department.



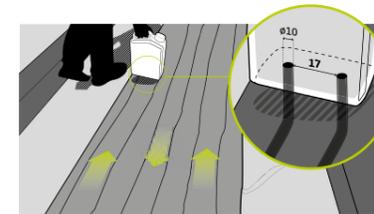
PU-LMF-02

PROCESSING

Processing temperature:
+5 °C to +40 °C

APPLICATION | BONDING

PU-LMF-02 is applied evenly in strips in bead form to the bonding substrate. Keep the longitudinal and transverse seams free from adhesive. Avoid accumulations of adhesive.



PROCESSING TIME

Depending on the climate, temperature and humidity, processing time is approx 30 minutes in a normal climate. We recommend a processing time of 5 to 10 minutes – but the adhesive should be processed within a maximum of 30 minutes and before a skin appears to form.

SOLVENTS AND CLEANING AGENTS

After use, the tool used should be cleaned immediately using G 500 cleaner. G 500 cleaner is suitable for degreasing metallic substrates and for cleaning lightly soiled surfaces and equipment. Hardened adhesive can only be removed mechanically.

STORAGE

PU-LMF-02 is sensitive to moisture and must be stored in an air-tight manner in a dry environment. For this reason, close partially used containers carefully and use them up promptly. The optimal storage temperature is +5 °C to +25 °C. In an unopened original container, shelf life under the conditions stated above is 9 months. Protect against frost.

TECHNICAL DATA

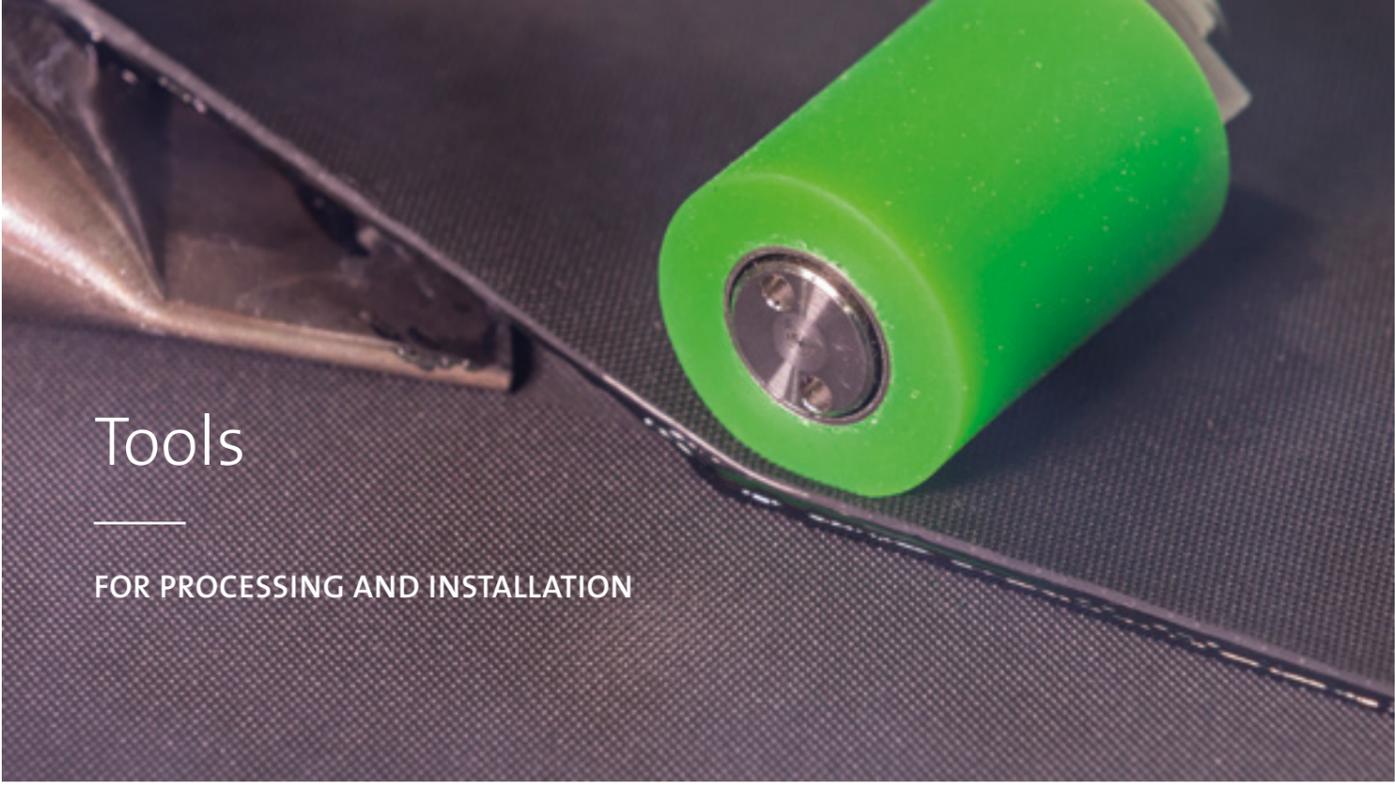
BASIS	Polyurethane
COLOUR	Blue
CONSISTENCY	Liquid, easy to brush
DENSITY	approx. 1,065 kg/m ³
VISCOSITY (AT +23 °C)	approx. 6,500 mPas
THERMAL STABILITY	-40 °C to +80 °C
CONSUMPTION	Ø 200 g/m ²

PRODUCT CODE

20019233



When handling our products, please follow the information on our EC safety data sheets and the safety information on our container labels.



Tools

FOR PROCESSING AND INSTALLATION

To install RESITRIX® waterproofing membranes, only a few, personal tools are required.

The following tools are required to install RESITRIX® waterproofing membranes:

- Manual welding device (e.g. Leister with nozzle width of 4 cm)
- Silicone pressure roller (width: 4 cm)
- Wire brush
- Brass pressure roller (width: 6 mm)
- Scissors
- Folding rule or tape measure
- Cutter knife
- Stick of chalk
- Chalk line



! When handling our products, please follow the information on our EC safety data sheets and the safety information on our container labels.

Tools



SILICONE PRESSURE ROLLER

The silicone pressure roller lets you process hot-air-weldable RESITRIX® waterproof membranes in a convenient and proper manner. It has been produced specially for professional use on roofs: balanced, stable and durably robust.

MATERIAL:	Silicone pressure roller on ball bearings with wooden handle
WIDTH:	40 mm
Ø:	30 mm
WEIGHT:	approx. 200g
PRODUCT CODE:	60126246



BRASS PRESSURE ROLLER

Brass hand roller with bearings on two sides and with an all-metal wheel on ball bearings.

WIDTH:	6 mm
Ø:	28 mm
PRODUCT CODE:	MR



RESITRIX® SCISSORS

Because of their sharpness, RESITRIX® scissors provide optimal flexibility and clean and accurate processing of RESITRIX® waterproofing membranes.

PRODUCT CODE:	65001800
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Regional roots, global network.

CARLISLE® CM Europe

RESITRIX® is one of the innovative products brought together under the strong umbrella brand of CARLISLE® CM Europe, standing for decades of skill in EPDM sealing solutions. Quality manufactured in Germany, at home on the roofs throughout the world.

The CARLISLE® CM Europe Group brings together the decades of experience of European rubber producers under one roof. It is part of the listed US group CARLISLE® Companies Incorporated and can look back on many years of tradition.

As an established specialist in high-quality technical elastomer products for flat roofs, façades and the water-proofing of buildings, we have at the same time always looked ahead. With our 475 employees, we do what we can every day to inspire our customers – with the best products, the best advice and the best training.

We want to give our customers the knowledge they need to carry out their projects properly and thus successfully. Only a manufacturer knows its products of today and the ways they can be used in the future.

For years, we have intensively trained craftsmen so that they can achieve the very best build quality. We have significantly expanded our training capability in our CARLISLE® ACADEMY and we can offer tailor-made training to installers, retailers, architects and planners. Success starts in the CARLISLE® ACADEMY.

Locations

EUROPE

- 1 | **Hamburg | Germany**
(European Head Office and Production)
- 2 | **Waltershausen | Germany**
(Production)
- 3 | **Kaufbeuren | Germany**
(CARLISLE® Services)
- 4 | **Weesp | The Netherlands**
(Production)
- 5 | **Kampen | The Netherlands**
(Production and Administration)
- 6 | **Mansfield | Great Britain**
(Production and Administration)
- 7 | **Belper | Great Britain**
(Production and Administration)
- 8 | **Baia Mare | Romania**
(Production)

AMERICA

- 9 | **Scottsdale | USA**
(Headquarters of CARLISLE® Companies Inc.)
- 10 | **Carlisle | USA**
(Division of CARLISLE® Construction Materials)

www.ccm-europe.com



Training with the CARLISLE® ACADEMY

As Europe's leading manufacturer of EPDM, each of our CARLISLE® ACADEMY training sessions provides you with sound expert knowledge and practical expertise. Our courses focus on our company's own product lines.

No matter which products, systems or solutions you are interested in – in the CARLISLE® ACADEMY you can find the right course on offer, from classic publicity training in the training centre at the CARLISLE® ACADEMY in Belper, to individual training sessions on your premises. The taught content is tailor-made to the everyday professional life of installers, retailers, architects and planners – so you can use your newly-acquired knowledge immediately.



BASIC TRAINING



What are the benefits of EPDM and how do you install it? In our Basic Training, we give you an initial overview of our products and our company. In the practical section, you can see for yourself how easy it is to install.

ADVANCED COURSE



Do you want to deepen your knowledge of EPDM and its possible uses? In our Advanced Course 1, you will learn more about our products and important standards, and can practise installation in a practical way on a model. At the end, you will receive proof of participation in the form of a certificate.

CPD SEMINARS



The RIBA accredited CPD seminar looks at an introduction to EPDM and the material variants currently produced worldwide. Waterproofing application for flat roof type and common construction build up details, including inverted, green roof, hard landscaping. Non RIBA seminars also available.

INDIVIDUAL COURSES



Furthermore, we can provide individual company certification, and architect and retailer seminars that are perfectly tailored to your needs and, of course, industry requirements.

More information about our training can be found at www.ccm-europe.com

An overview of our services

We want you to feel secure all round with CARLISLE® CM Europe. So for us, this not only includes supplying the best products for your project but also the best possible customer service.

Our requirement for good service is that we accompany you in word and deed from the first consultation to measuring up and on-site briefings. Whether for new builds or renovations, from the roof to the waterproofing of buildings. We are even there for you after the completion of your project.

Our team of qualified and experienced employees consists of specialist advisers, application engineers, civil engineers and architects. In this way, we can always provide tailor-made services to our customers, whether they are installers, planners, architects or specialist trading partners.

ADVICE AND PLANNING

- Individual consultancy appointments
- Technical advice for new builds and renovations
- Creation of renovation concepts and illustration of renovation alternatives
- Individual designs of roof structures and detailed solutions
- Tender documents
- Drafting of specifications
- CAD drawings for individual connecting areas or roof superstructures

CALCULATIONS

- Wind-load calculations
- Drainage calculations
- Cost estimates

ON-SITE SERVICE

- On-site personal consultation appointments
- Roof inspections and property surveys with status reports
- Roof openings in the case of renovations
- Construction supervision up to the final site inspection

DELIVERY

- Delivery to the location of your choice, even direct to the construction site
- Provision of unloading facilities on demand
- Free delivery may apply on certain orders, subject to Terms and Conditions.
- On-time deliveries at fixed times are possible on request

SAFETY

- Production certified acc. to DIN EN ISO 9001 and DIN EN ISO 14001
- Environmental product declaration (EPD)
- Comprehensive certification and test records
- Extended tests carried out on our in-house test laboratories

TRAINING

- CARLISLE® ACADEMY for
- Installers
 - Developers
 - Architects & planners
 - Trading partners



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