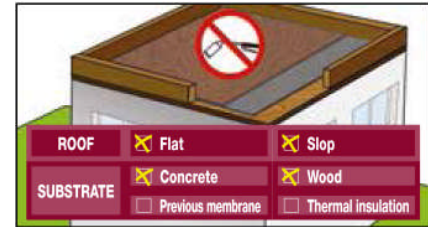


SELFTENE BASE POLYESTER

(ELASTOMERIC DISTILLED POLYMER-BITUMEN SELF-ADHESIVE WATERPROOFING MEMBRANES)

HOW TO LAY THICK PROFESSIONAL REINFORCED MEMBRANES WITHOUT TORCHING OR USING OTHER HEAT SOURCES OR HARMFUL ADHESIVES?

The aim is to insulate with thick reinforced membranes without using torching, or melted bitumen or adhesives. The problem concerns: special industrial areas with a risk of fire or explosion, where use of torching is forbidden; laying on easily combustible surfaces, but where it is necessary to create a single-layer or standard double-layer 'stratigraphy', using thick reinforced membranes.



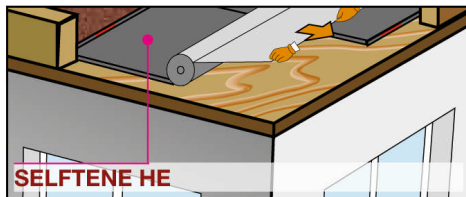
Description

The SELFTENE series consists of thick elastomeric (SBS) distilled polymer-bitumen membranes reinforced with a nonwoven composite polyester fabric stabilized with fiberglass, offering high mechanical resistance and dimensional stability. The bottom face of the membranes is coated with a special self-adhesive elastomeric mass which adheres by simple pressure at ambient temperature. It consists of a special selected mix of Venezuelan bitumen, tackifying resins and radial and linear elastomeric thermoplastic polymers which guarantee long-lasting adhesive properties. The graph shows how, unlike standard bitumen mixes, SELFTENE's adhesive mass maintains its adhesive properties during the storage test and the following graph shows how its formulation with special 'anti-freeze' additives allows it to maintain its high adhesive power even at low temperatures during the cold adhesive test.

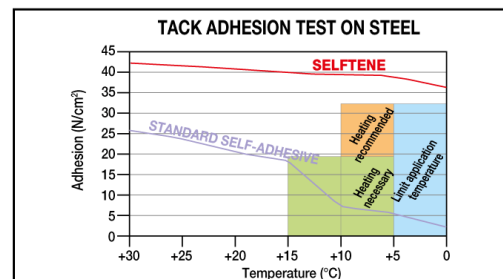
The bottom adhesive face of both membranes is protected by a silicone coated-film, which should be removed during laying. The top face of SELFTENE is protected by a Flamina film, which makes it possible to make joints by self-adhesion without any waste, no matter how the roll is cut.

The top face is provided with a longitudinal overlap strip protected by a strip of bi-silicone coated film which facilitates the laying operations and is only removed when the joints are carried out. Other self-adhesive membranes, or also torch-laid membranes, can be adhered to the top face of SELFTENE BASE HE POLYESTER. The top face of MINERAL SELFTENE HE POLYESTER is self-protected with slate granules, except of a side strip for overlaps, which is protected by a bi-silicone coated film.

Whereas the overlaps of the SELFTENE POLYESTER type are always sealed by self-adhesion, in the case of MINERAL SELFTENE, the overlaps at the ends or on the slate, should be sealed by a coat of HEADCOLL adhesive paste, applied between the edges to be joined. Another way of making end joints is to glue, by self-adhesion, the two edges of the MINERAL type on a 20 cm-strip of BASE HE POLYESTER. In this case, the sheets are not overlapped but are brought together end to end. If possible you can torch the overlap



Applications field SELFTENE HE membranes are used to make very thick waterproof coats with reinforced membranes, in places where it is forbidden to use naked flames. The membranes are also used on laying surfaces sensitive to heat or easily combustible, such as panels in polystyrene foam, wooden roofs, etc. They are recommended in cases where the use of flames could cause dangerous situations for operators, e.g. in places without any ventilation, or narrow places such as excavations of foundation walls, etc. The MINERAL self-protected type is designed to be exposed, whereas BASE POLYESTER should be used in applications not exposed to light or as a base layer under another membrane. It can also be used as vapour control layer directly applied over timber surfaces, thus avoiding the extra cost of a nailed protection felt. Thermal insulation boards are then glued or fastened directly on the VCL.





EN 13707 - Reinforced bitumen sheets for roof waterproofing
 EN 13969 - Bitumen damp proof sheet including bitumen basement tanking sheets
 EN 13970 - Bitumen water vapour control layers

FIELDS OF APPLICATION			
Under layer or intermediate layer in multi-layer systems without permanent heavy surface protection	Upper layer in multi-layer systems without permanent heavy surface protection	Under heavy protection in multi-layer systems	Membranes for foundations

Method of use	Pressure Application	Nailing
	✓	✓

Loading Table	Product specifications				Loading in 20' FCL	
	Thickness	m ² /roll	Rolls/pallet	Pallets	M ²	
Selftene Base HE Polyester	2 mm	15	28	20	8400	
	3 mm	10	28	20	5600	
Mineral Selftene Polyester	4,0 kg/m ²	10	25	20	5000	
Selftene ALU+Polyester	3,0 kg/m ²	10	30	20	6000	
Selftene Biadhesive Poly	3,0 kg/m ²	10	30	20	6000	
Selftene Biadhesive ALU+Poly	3,0 kg/m ²	10	30	20	6000	
Selftene Biadhesive Fiberglass	3,0 kg/m ²	10	30	20	6000	

Finishing



FLAMINA. Plastic protection film helping prevent coils from sticking to the roll. As it withdraws under the action of the flame right during its installation, it signals the best melting point in order to correctly glue the membrane to the brackets and rises. When not heated, it can be used as a sliding layer.



MINERAL PROTECTION. On the visible face of the membrane, a protective coating made up of slate granules of various colours is hot bonded. This mineral shield protects the membrane from ageing caused by UV rays in the points where it remains intact, preventing blisters and swelling.

CATEGORY	CHARACTERISTICS				ENVIRONMENTAL						METHOD OF USE	
 SPECIAL ELASTOMERIC FOR SPECIFIC USES	 WATERPROOF	 SUPER-ADHESIVE	 REACTION TO FIRE	 ECO GREEN	 ASBESTOS FREE	 TAR FREE	 CHLORINE FREE	 RECYCLABLE	 NON DANGEROUS WASTE	 EXHAUSTED OIL FREE	 PRESSURE APPLICATION	 NAILING

TECHNICAL SPECIFICATIONS					
	Standard	T	SELFTENE BASE POLYESTER		MINERAL SELFTENE POYESTER
Reinforcement			non woven composite polyester stabilized with fiberglass		non woven composite polyester stabilized with fiberglass
Thickness	EN 1849-1	±0,2	2mm	3mm	4,0kg/m ²
Mass per Unit Area		±12%			
Roll size	EN 1848-1		1x15m	1x10m	1x10m
Watertightness	EN 1928 – B	≥	60 kPa		60 kPa
Shear resistance L/T	EN 12317-1	20%	350/300 N/50mm		450/400 N/50mm
Maximum tensile force L/T	EN 12311-1	-20%	450/400 N/50mm		450/400 N/50mm
Elongation L/T	EN 12311-1	15%	40%/40%		40%/40%
Resistance to impact	EN 12691–A		800 mm		800 mm
Resistance to Static Loading	EN 12730 A		10 kg		10 kg
Resistance to tearing (nail shank) L/T	EN 12310-1	-30%	150/150 N		150/150 N
Flexibility to low temperature	EN 1109	≤	-25°C		-25°C
Flow resistance at high temperature	EN 1110	≥	100°C		100°C
Reaction to Fire - Euroclass	EN 13501-1		E		E
External fire performance	EN 13501-5		F roof		F roof
Thermal Specifications					
Thermal Conductivity			0,2 W/mK%	0,2 W/mK%	0,2 W/mK%
Heat Capacity			2,60 KJ/K	3,90 KJ/K	4,80 KJ/K

