

TECHNICAL DATA SHEET 650-1-2

Issue date: 05-2023

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Product name: **MULTIPLEX SUPER AL**
Polymer bitumen vapour barrier

Product code: 10097

Product standard: EN 13970

Roll dimensions: 7.50 x 1.00 m

Protective coating:
upper side Sand
bottom side PE foil

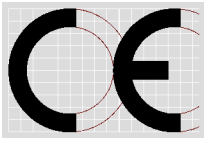
Reinforcement: Aluminium and glass fleece

Product description: MULTIPLEX SUPER AL is a torch-applied, bituminous vapour control layer which is saturated and coated with high quality SBS modified bitumen. It has a aluminium and glass fleece reinforcement, a thermofusible polyethylene film on the underside and is finished on the top surface with sand.

Product use: MULTIPLEX SUPER AL is a polymer bitumen torch-on membrane. It is used as a premium vapour barrier membrane (functional layer) on a flat roof for all non-aerated layers on massive substructure. The aluminium reinforcement is resistant to alkali and corrosion. The layer can be used also as an "Emergency covering" (i.e. provisional sealing).

Please pay attention to the inclinational and operational demands!

Properties	Test method	Unit	Declared performance
Visible defects	EN 1850-1	-	no visible defects
Length	EN 1848-1	m	≥ 7.50
Width	EN 1848-1	m	≥ 1.00
Straightness	EN 1848-1	mm/10 m	< 20
Mass per unit area	EN 1849-1	kg/m ²	unverifiable result
Thickness	EN 1849-1	mm	3.50 (± 5%)
Water tightness	EN 1928 Method B	-	passed at 100 kPa
Tensile properties: maximum tensile force	EN 12311-1	N	400 / 400 (± 10%)
Tensile properties: elongation	EN 12311-1	%	2 / 2 (+2; -0)



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Properties	Test method	Unit	Declared performance
Flexibility at low temperatures	EN 1109	°C	≤ - 20
Flow resistance at elevated temperatures	EN 12311-1	°C	≥ +100
Reaction to fire	EN 11925-2	-	Class E according to DIN EN 13501-1
Water vapour transmission properties	EN 1931	m	Sd ≥ 1.500

Features & benefits:

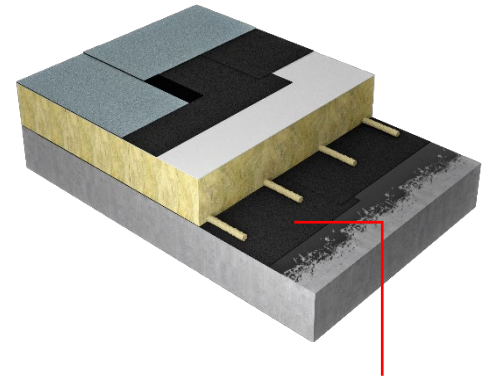
- Torch-on application
- Aluminium reinforced
- SBS modified bitumen

Application overview:

MULTIPLEX SUPER AL should be installed in accordance with manufacturer recommendations and all relevant national standards and codes of practice, including BS 8217:2005 – the code of practice for reinforced bitumen membranes for roofing.

The membrane is concealed with polyethylene foil on the bottom and is torched-on the entire area, pointwise or stripewise.

The 8 cm wide joint overlaps have to be torched-on consistently and thus only form a dense vapour barrier on the whole of the functional layer!



MULTIPLEX SUPER AL

Chemical resistance:

MULTIPLEX SUPER AL is water-resistant and is resistant to watery solutions of salt, diluted non-oxidising acids and bases. Aliphatic and aromatic hydrocarbons, as well as chlorine hydrocarbons, oils and greases may loosen the product and should therefore be avoided.

Storage:

Store upright in a cool, dry place and protect from direct sunlight.

Health & safety:

Health and Safety should be observed at all times in accordance with HSE and industry guidance. Specific Risk Assessments and Method Statements should be produced by contractors where necessary to ensure Working at Heights, Fire Safety and Manual Handling rules are compliant with current law and regulations. Health and safety data sheets are available for all materials on request from GEORG BÖRNER Technical Service Department.