Product data sheet 2015-2-2

Certification number: 1724-CPD-041101
1724-CPD-041201

Product trade name:	**MONOPLEX SBS PV 180 S4, mineral fine** **Elastomer bitumen torch-on membrane**
Product-number:	12094
Product specification:	DIN EN 13707 DIN EN 13969
Length, Width:	10.00 m x 1.00 m
Thickness:	4.00 mm
Coating type:	Elastomer bitumen
Content of solubility:	N/A
Reinforcement:	Polyester fleece
Min. weight of reinforcement:	180 g/m²

Polymer bitumen torch-on membrane with polyester fleece reinforcement
– as a bottom layer of roof insulation and a polymer bitumen torch-on membrane with polyester fleece reinforcement to seal buildings against rising damp and water.

Characteristics according to DIN EN 13 707, DIN EN 13969	**Test method/ Classification**	**Units**	**Requirements/ Critical value**
Visible defects	DIN EN 1850-1	-	no visible defects
Length	DIN EN 1848-1	m	≥ 10.00
Width	DIN EN 1848-1	m	≥ 1.00
Straightness	DIN EN 1848-1	mm/10 m	≤ 20
Mass per unit area	DIN EN 1849-1	kg/m²	unverifiable result
Thickness	DIN EN 1849-1	mm	4.0 ± 0.2 abs.
Water tightness at 200 kPa test pressure	DIN EN 1928 Method B	-	passed
External fire performance	DIN V ENV 1187	-	see testing of system
Reaction to fire	DIN EN ISO 11925-2	-	Class E according to DIN EN 13501-1
Water tightness after stretching at low temperatures	DIN EN 13897	-	unverifiable result
Peel resistance of joint	DIN EN 12316-1	N/50 mm	unverifiable result

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Characteristics according to DIN EN 13707, DIN EN 13969	Test method/ Classification	Units	Requirements/ Critical value
Shear resistance of joint	DIN EN 12317-1	N/50 mm	unverifiable result
Tensile properties: maximum tensile force	DIN EN 12311-1	N/50 mm	≥ 800 / 600
Tensile: elongation	DIN EN 12316-1	%	≥ 35 / 35
Resistance to impact	DIN EN 12691	mm	unverifiable result
Resistance to static loading	DIN EN 12730	kg	unverifiable result
Resistance to tearing (nail shank)	DIN EN 12310-1	N	unverifiable result
Resistance to root penetration	DIN EN 13948	-	-
Dimensional stability	DIN EN 1107-1	%	-
Form stability under cyclic temperature change	DIN EN 1108	%	unverifiable result
Flexibility at low temperatures	DIN EN 1109	°C	- 15 ± 5 abs.
Flow resistance at elevated temperatures	DIN EN 1110	°C	+ 100 ± 8 abs.
Artificial aging DIN EN 1296	DIN EN 1109 or DIN EN 1110	°C °C	unverifiable result unverifiable result
Adhesion of granules	DIN EN 12039	%	-
Water vapour transmission properties	DIN EN 1931	-	-

Customer information:

Purpose:

MONOPLEX SBS PV 180 S4 mineral fine is a polymer bitumen torch-on membrane. In the build up of the flat roof layers this membrane is used as a waterproof layer on any angle and together with other polymer bitumen membranes or bitumen underlay membranes it is used as a under layer of roof insulation.

Please pay attention to the inclination and operational demands!

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Application:

The application of **MONOPLEX SBS PV 180 S4 mineral fine** is carried out in accordance with the nationally valid regulations for roofs with sealants. The whole membrane is torched-on with a joint overlap of at least 8 cm. In case of a directly mechanically fixing the joint overlap has to be approximately 12 cm.

Advise:

Due to its thermoplastic inlay the membrane must not be overheated.

Loose laying or mechanical fixing of the membrane as well as spots or stripes of heating/adhesion on the surface followed by heating/adhesion of the joint overlaps can cause corrugation if the outside temperature and/or surface temperature are too low.

Please note that the colour of the granules can vary during their useful life due to the effects of weather and other outside circumstances.

Chemical resistance:

MONOPLEX SBS PV 180 S4 mineral fine is water-resistant as well as resistant to watery solutions of salt, diluted non oxidising acids and bases. Aliphatic and aromatic hydrocarbons as well as chlorine hydrocarbons, oils and greases loosen **MONOPLEX SBS PV 180 S4 mineral fine.**

Storage:

Store upright in a cool and dry place.

Safety data sheet:

Supplementary safety data sheet is available on request.

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