

TECHNICAL DATA SHEET 2500-2-2

Issue date: 05-2023

Page 1 from 2



Product name: **POLY-ELAST PV 180 S4**
Elastomer bitumen torch-on membrane

Product code: 11154

Product standard: EN 13707

Roll dimensions: 7.50 x 1.00 m

Protective coating:
upper side: Slate
bottom side: PE film

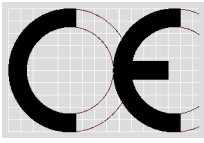
Reinforcement: Polyester fleece

Product description: Polymer bitumen torch-on membrane with polyester fleece reinforcement – as a top layer of roof insulation

Product use: POLY-Elast PV 180 S4 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 if used together with other polymer bitumen membranes or bitumen underlay membranes it can be used as a cap sheet.

Please pay attention to the inclination 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	4.20 (± 0.2)
Water tightness at 200 kPa	EN 1928 Method B	-	passed
Tensile properties: maximum tensile force	EN 12311-1	N	900 / 600 (± 10%)
Tensile properties: elongation	EN 12311-1	%	35 / 35 (± 5)
Flexibility at low temperatures	EN 1109	°C	≤ - 25
Flow resistance at elevated temperatures	EN 12311-1	°C	≥ +100



Properties	Test method	Unit	Declared performance
Reaction to fire	EN 11925-2	-	Class E according to DIN EN 13501-1
External fire performance	CEN/TS 1187	-	Broof (t1), (t4) (see tested system)

Features & benefits:

- Torch-on application
- Incorporates graphite technology which actively prevents spread of flames on roof
- Excellent low temperature flexibility at -25°C
- High tensile strength polyester reinforcement

Application overview:

POLY-ELAST PV 180 S4 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 application of POLY-Elast PV 180 S4 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. If the membrane has to be hidden mechanically fixed the joint overlap has to be more than 12 cm. 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:

POLY-Elast PV 180 S4 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 POLY-Elast PV 180 S4.

Storage:

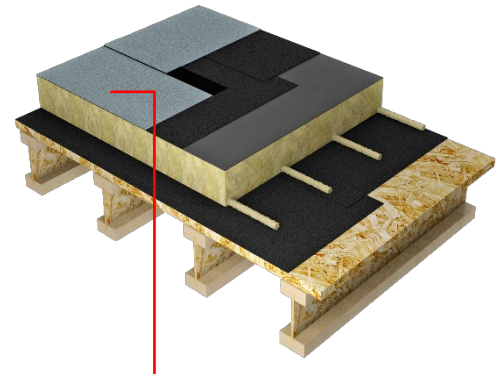
Store upright in a cool, dry place and protect from direct sunlight.

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.

Certification number:

1724 - CPD - 041101



POLY-ELAST PV 180 S4