

Product data sheet 850-1-2

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Certification number: 1119-CPR-13119



Product trade name: **BÖRNER OK 45
Polymer bitumen torch-on membrane**

Product number: 11339

Product standard: DIN EN 14695
TL/TP-BEL-B Part 1; ZTV-ING part 7, section 1

Labelling: BE-PYE-PV180 HL S4.5 according to DIN V 20000-203

Length, width: 7.50 m x 1.00 m
Thickness: min. 4.5 mm
Coating type: Elastomer bitumen
Surface: mineral fine
Bottom: PE-foil
Reinforcement: Polyester fleece PV180 g/m² (± 10 % rel.)

Polymer bitumen torch-on membrane with reinforcement - to seal concrete bridges and other traffic surfaces made of concrete

Characteristics acc. EN 14695	Test method	Units	Requirements/ Critical value
Visible defects	DIN EN 1850-1	-	no visible defects
Length	DIN EN 1848-1	m	≥ 7.50
Width	DIN EN 1848-1	m	≥ 0.98
Thickness	DIN EN 1849-1	mm	4.8 ± 0.3 abs.
Straightness	DIN EN 1848-1	mm/10 m	≤ 20
Mass per unit area	DIN EN 1848-1	kg/m ²	5.47 ± 10 %
Tensile properties: maximum tensile force	DIN EN 12311-1	N/50 mm	880/700 ± 150; min. ≥ 550
Tensile: elongation	DIN EN 12311-1	%	≥ 30
Water absorption	DIN EN 14223	%	≤ 1.5
Flow resistance at elevated temperature	DIN EN 1110	°C	≥ + 110
Flexibility at low temperature	DIN EN 1109	°C	- 16 ± 6; min. - 10

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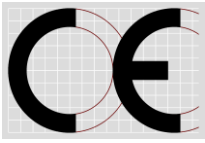
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Characteristics acc. EN 14695	Test method	Units	Requirements/ Critical value
Bonding strength	DIN EN 13596	N/mm ²	≥ 0.7 (8°); ≥ 0.4 (23°)
Shear strength	DIN EN 13653	N/mm ²	≥ 0.15 (23°)
Crack bridging ability	DIN EN 14224	°C	- 20 passed
Compatibility by heat conditioning	DIN EN 14694	%	≥ 70
Behaviour of bitumen sheets during application of mastic asphalt	DIN EN 14693, 4.5.1	%	0
Water tightness	DIN EN 14694	-	passed

Characteristics acc. to TL/TP-BEL-B Part 1	Test method	Units	Requirements/ Critical value
Thickness of surface layer (d _o)	TP-ING/Part 7 Paragraph 3.13	mm	≥ 3.0
Thickness of adhesive layer (d _u)	TP-ING/Part 7 Paragraph 3.13	mm	≤ 0.5 ≥ 0.15
Ring-and-ball of coating compound	DIN EN 1427	°C	+ 131 ± 6 abs.;
Amount of ash in the surface layer	TP-ING/Part 7 Paragraph 3.9	%	30 ± 5 abs.

Storage:	The rolls have to be transported and stored upright. They must be protected from impact through shock and other mechanical damage. Direct moisture during transport and storage must be avoided.
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Chemical resistance:	BÖRNER OK 45 Polymer bitumen torch-on membranes are water-resistant as well as resistant to salt water solutions, diluted non oxidising acids and bases. Aliphatic and aromatic hydrocarbons as well as chlorine hydrocarbons, oils and greases loosen BÖRNER OK 45 Polymer bitumen torch-on membranes .
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Safety/Safety at work:	Please see safety data sheet.
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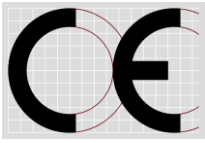
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Customer Information:

Purpose:

In accordance with ZTV-ING part 7, section 1, **BÖRNER OK 45 polymer bitumen torch-membrane** is used as a single layer system for the sealing of concrete bridge decks in connection with a special protection layer made of mastic asphalt and a covering layer of asphalt concrete, mastic asphalt or split mastic asphalt or otherwise it is used to seal other traffic areas made from concrete e.g. car parks, basement ceilings etc. in connection with mastic asphalt following the regulations of DIN 18532-2. The **BÖRNER OK 45 Polymer bitumen torch-on membranes** are polymer bitumen torch-on membranes with elevated polyester fleece reinforcement. In connection with special polymer bitumen coating compound the thermally resistant polyester fleece avoids the unfavourable mixing of the mastic asphalt protection layer with the top coat of the membrane. It is not necessary to mask the joints of the membrane.

Application:

The application of **BÖRNER OK 45 Polymer bitumen torch-on membranes** on asphalt bridge decking is carried out in accordance with ZTV-ING part 7, section 1, and our execute statement according to TL/TP-BEL B Part 1. When applying **BÖRNER OK 45 Polymer bitumen torch-on membranes** on other traffic areas e.g. parking decks etc. one has to comply by DIN 18532-2.

Note:

When carrying out custom build constructions with a combined single layered protection sheet made of mastic asphalt the overlapping of the **BÖRNER OK 45 Polymer bitumen torch-on membrane** can show through the mastic asphalt and/or form hollows or indents in the mastic asphalt where the sheets are overlapping.

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