

Product Data Sheet

Lucobridge®PV-BIT

Producer
LUCOBIT AG
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1. Product

Lucobridge®PV-BIT is a waterproofing membrane system that in combination with Lucosol®2000P primer (proprietary resin priming coat) and Lucobridge®Binder 2010SB adhesive was developed specifically for waterproofing steel bridge constructions. The system complies with ZTV-ING part 7, Section 1.

External tests showed that the Lucobridge®PV-BIT system exhibits an optimized interlocking system between the basic bridge construction and the top wearing course asphalt layers. Lucobridge®PV-BIT consists of a 1.6 mm polymer modified bitumen thick ECB (ethylene-copolymer-bitumen) membrane with a glass-fiber mat inlay and polyester mats on one side. This structure is then glued to the primed and with adhesive resin coated bridge steel deck. A wearing asphalt course can be placed directly on top. The membrane is conceived for the sealing under stone mastics asphalt, mastic asphalt or concrete. This membrane system warrants an excellent cover for any cracks or breaks due to its superior elasticity even after aging.

2. Advantages

- Chlorine-free system
- Extremely tear-resistant due to built-in glass mat
- Easy to lay as single ply membrane for bridges
- High resistance to static loading due to its elasticity

- High resistance to impact, perforation and penetration
- Excellent behavior in low temperature
- Superior in counteracting cracks and breaks in the basic bridge structure
- Extremely high adherence to pretreated surfaces
- Excellent temperature resistance
- Aging-resistant
- UV-resistant

3. Use

- Any Steel-Bridge construction
- Other Civil Structures based on basic steel construction

4. Processing

The surface of the steel bridge has to be prepared corresponding to regulations and must be pretreated with primer resin Lucobridge®Primer 2000P and subsequently with Lucobridge®Binder 2010SB adhesive (ZTV-ING Part 7, clause 1 resp. 4). Lucobridge®PV-BIT has to be rolled out, free of voids with overlapping seams and impacts using the flash welding procedure. Details may be found in the laying instructions. The overlay-seams can be welded with multistreamed gridburners; a lateral wind protection are recommended. The temperature of bitumen should not exceed 160 °C.

5. Storage

Lucobridge®-PV-BIT must be stored upright, protected from moisture and heat.

6. Externally tested System Data

Tested according to the German TL/TP-BEL-1 Standards.

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Table: Basic test acc. TL/TP-BEL-ST – Test report P9369, KIWA Certification Institute, Dated 23/10/2016

System: Steel – Lucobridge®PV-BIT

TP-BEL-ST	Test	Standard	Unit	Lucobridge®PV-BIT	TL-BET-ST
7.1	Surface weight, Raw reinforcement, extracted	DIN 52123 ISO 1887	g/m ²	1160	> 175
7.2	Type of reinforcement	DIN 18192	-	ECB	> 175
7.3	Surface weight total membrane	DIN 52123	g/m ²	2180	> 4500
7.4	Thickness	DIN 52123	mm	2.5	4.5-5.5
7.5	Thickness of adhesive layer	TP BEL-ST	mm	0.8	0.2-0.5
7.7	Roll width	TP-BEL-ST	Cm	104.4	100 ± 1
7.8	Totally extractable ingredients	DIN 52123	%	44.7	> 70
7.11	Tensile strength at yield	DIN 52123	N/50 mm	1125 (Length) 660 (Diagonal)	> 550 > 550
7.11	Elongation at yield	DIN 52123	%	49 (Length) 103 (Diagonal)	> 30 > 30
7.12	Water impermeability	DIN 52123	2bar/24h	passed	passed
7.13	Heat resistance	DIN 52123	°C	> 100	> 100 (SBS) / > 130 (aPP)
7.14	Foldability at low temperatures	DIN 52123	°C	-25	< -10
7.15 (Adhered membrane)	Tear Strenght acc. DSB		N/mm ²	0.6	> 0.5

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