

Product Data Sheet

Lucobridge®BIT

Producer
LUCOBIT AG
Brühler Str. 60
Basell Polyolefine GmbH - B 100
D-50389 Wesseling

- Superior in counteracting cracks and breaks in the basic bridge structure
- Extremely high adherence to pretreated surfaces
- Excellent temperature resistance
- Aging-resistant
- UV-resistant

1. Product

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

External tests showed that the Lucobridge®-system exhibits an optimized interlocking system between the basic bridge construction and the top wearing course asphalt layers.

Lucobridge®BIT consists of a 1.6 mm polymer modified bitumen thick ECB (ethylene-copolymer-bitumen) membrane with a glass-fiber mat inlay. This structure can be heat-activated either by (torch-)flame or hot-air directly onto any bridge deck; a wearing asphalt course can be placed directly on top (e.g. 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 fiber 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

3. Use

- Any Bridge construction – Concrete-based
- Parking levels/parking garages incl. driveways
- Tunnels
- Other Civil Structures

4. Processing

The surface of concrete has to be prepared corresponding to regulations and must be pretreated with a primer (ZTV-ING Part 7, clause 1 resp. 4).

Lucobridge®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. Multistreamed gridburners with lateral wind protection are recommended. The temperature of bitumen should not exceed 160 °C.

5. Storage

Lucobridge®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: Lucobridge®BIT – Tests acc. TL-BEL-B 1, Test report P9309, KIWA Certification Institute. Dated 23/10/2016

System: Concrete – Lucobridge®BIT (Abstract)

TL/TP-BEL-B 1	Test	Standard	Unit	Lucobridge®PV-BIT	Requirements TL-ING Part 7
3.1	Surface Weight, total membrane	DIN 52123	g/m ²	4730	> 4500
3.6	Distribution of polymers in the adhesive mass	TP-Min-StB 3.1.3		Heterogeneous 2-phase system; ok	Homogeneous; Particles: none > 0.7mm
3.8	Filler content of adhesive mass	DIN EN 53568	%	5.7	≤ 40
3.9	Type, Property of reinforced sheet	DIN EN 18192		ECB-membrane, 50g/m ² glass-fiber fleece	
3.9	Tensile strength at yield Elongation at yield	DIN EN 13956	N/50mm %	> 1000 > 400	≥ 700 ≥ 30
3.12	Thickness of sheet	DIN EN 52123	mm	4.5 < x < 5.0	4.5 < x < 5.5
3.14	Roll width	TP-BEL-B1	cm	104.7	100 ± 2
3.16	Straightness	TP-BEL-B1	cm	0.2	≤ 1cm/5m
3.17	Tensile strength at yield Elongation at yield	DIN EN 52123	N/50mm %	Length/cross/diagonal 1160/690/810 53/109/78	Length/cross/diagonal ≥ 550/≥ 550/≥ 550 ≥ 30/≥ 30/≥ 30
3.18	Water impermeability	DIN EN 52123	2bar/24h 4bar/48h	Passed Passed	Passed Passed
3.19	Change by water immersion	DIN EN 52123	% %	0 0	Volume ≤ 5 Mass ≤ 5
3.25	Foldability at low temperatures	DIN EN 1109	°C	-16	≤ -10

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