

Biresin® lineTEC® EP 180

Areas of Application

- Impregnation of mechanically resistant needle felt liners for the redevelopment of sewers

Product Benefits

- Solvent-free
- Good soaking and wetting properties
- No moisture sensitiveness
- Good resistance against chemicals
- High toughness

Description

- Basis Two component epoxy system
- Resin (A) **Biresin® lineTEC® EP 180**, epoxy resin, yellowish-transparent, unfilled
- Hardener (B) **Biresin® lineTEC® EP 180**, amine, colourless-transparent, unfilled

Processing Data

Processing Data		Resin (A)	Hardener (B)
Individual components		Biresin® lineTEC® EP 180	Biresin® lineTEC® EP 180
Viscosity, 25°C	mPa.s	1,100	10
Density	g/cm³	1.12	0.95
Mixing ratio resin to hardener	in parts by weight	100	25
		Mixture	
Mixed viscosity, 25°C	mPa.s	300	
Potlife, 500 g / 23°C	min	180	

Physical Data (approx. values)

Biresin® lineTEC® EP 180 resin (A) with hardener (B)			Biresin® lineTEC® EP 180	
Density	ISO 1183	g/cm³	1.12	
Curing conditions		time temperature	4 h 60°C	8 h 70°C
Shore hardness	ISO 868	-	D 85	D 86
E-Modulus	ISO 178	MPa	3,150	3,150
Flexural strength	ISO 178	MPa	120	135
Compressive strength	ISO 604	MPa	114	115
Tensile strength	ISO 527	MPa	76	88
Impact resistance	ISO 179	kJ/m²	40	50
Heat distortion temperature	ISO 75B	°C	64	75

Packaging (net weight, kg)

Biresin® lineTEC® EP 180 Resin (A)	1000	200	20
Biresin® lineTEC® EP 180 Hardener (B)	950	50	5

Processing

- The material temperature must be 15 - 20°C.
- Higher processing temperatures results in shorter potlife.
- A thoroughly mixing of resin and hardener component with a mechanical stirrer (300-400 rpm) is recommended for the further curing process. The minimum mixing time should be at least 3 min and when a homogeneous mixture (free of cords) is obtained. Mixed material has to be poured into a clean vessel (repotted) and mixed again for a short time.
- Biresin® lineTEC® EP 180 will easily and quickly wet out fibres with excellent bonding.
- To clean brushes or tools immediately Sika® Reinigungsmittel 5 is recommended.

Storage

- Minimum shelf life of Biresin® lineTEC® EP 180 resin (A) is 24 month and of Biresin® lineTEC® EP 180 hardener (B) is 12 month, when stored free of frost (preferred cool and dry) and in original un-opened containers.
- Containers must be closed tightly immediately after use to prevent moisture ingress. The residual material needs to be used up as soon as possible.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety related data.

Disposal considerations

Product Recommendations: Must be disposed of in a special waste disposal unit in accordance with the corresponding regulations.

Packaging Recommendations: Completely emptied packagings can be given for recycling. Packaging that cannot be cleaned should be disposed of as product waste.

Value Bases

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Legal Notice

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Further information available at:

Sika Deutschland GmbH
Subsidiary Bad Urach
Stuttgarter Str. 139
D - 72574 Bad Urach
Germany

Tel: +49 (0) 7125 940 492
Fax: +49 (0) 7125 940 401
Email: tooling@de.sika.com
Internet: www.sika.com

