

Biresin[®] lineTEC[®] EP 70

with Biresin[®] lineTEC[®] EP 30 hardener

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 70, epoxy resin, grey
- Hardener (B) Biresin[®] lineTEC[®] EP 30, amine, colourless to amber

Processing Data		Resin (A)	Hardener (B)
Individual components		Biresin [®] lineTEC [®] EP 70	Biresin [®] lineTEC [®] EP 30
Viscosity, 25°C	mPa.s	~5,200	~40
Density	g/cm ³	1.21	0.96
Mixing ratio A : B	in parts by weight	100	20
		Mixture	
Mixed viscosity, 25°C	mPa.s	~1,800	
Potlife, 500 g / 23°C	min	25	

Physical Data (approx.-values)

Biresin [®] lineTEC [®] EP 70 resin (A)	with hardener (B)	Biresin [®] lineTEC [®] EP 30		
Density	ISO 1183 g/cm ³	1.21		
Curing conditions	time temperature	RT	2h 60°C	8 hr 70°C
Shore hardness	ISO 868 -	D 81	D 82	D 82
E-Modulus	ISO 178 MPa	3,900	3,700	3,500
Flexural strength	ISO 178 MPa	80	95	100
Compressive strength	ISO 604 MPa	100	105	110
Tensile strength	ISO 527 MPa	55	60	65
Heat distortion temperature	ISO 75B °C	55	73	85

Packaging (net weight, kg)

Biresin [®] lineTEC [®] EP 70 Resin (A)	1100	200	20
Biresin [®] lineTEC [®] EP 30 Hardener (B)			4

Processing

- The material and processing temperature must be 15 - 25°C.
- Higher processing temperatures results in shorter potlife.
- A thorough mixing of the two components 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 70 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 70 resin (A) is 12 month and of Biresin® lineTEC® EP 30 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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