

## Biresin<sup>®</sup> lineTEC<sup>®</sup> EP 70

### 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<sup>®</sup> lineTEC<sup>®</sup> EP 70**, epoxy resin, grey
- Hardener (B) **Biresin<sup>®</sup> lineTEC<sup>®</sup> EP 70**, amine, colourless to yellowish

Processing Data		Resin (A)	Hardener (B)
Individual components		<b>Biresin<sup>®</sup> lineTEC<sup>®</sup> EP 70</b>	<b>Biresin<sup>®</sup> lineTEC<sup>®</sup> EP 70</b>
Viscosity, 25°C	mPa.s	5,200	170
Density	g/cm <sup>3</sup>	1.21	0.96
Mixing ratio A : B	in parts by weight	100	20
		<b>Mixture</b>	
Mixed viscosity, 25°C	mPa.s	1,300	
Potlife, 500 g / 23°C	min	80	

### Physical Data (approx.-values)

Biresin <sup>®</sup> lineTEC <sup>®</sup> EP 70 resin (A)			with hardener (B)		Biresin <sup>®</sup> lineTEC <sup>®</sup> EP 70	
Density	ISO 1183	g/cm <sup>3</sup>	1.20			
Curing conditions		time temperature	2 hr 60°C	8 hr 70°C		
Shore hardness	ISO 868	-	D 80	D 82		
E-Modulus	ISO 178	MPa	3,600	3,450		
Flexural strength	ISO 178	MPa	117	120		
Compressive strength	ISO 604	MPa	111	107		
Tensile strength	ISO 527	MPa	70	75		
Impact resistance	ISO 179	kJ/m <sup>2</sup>	24	28		
Heat distortion temperature	ISO 75B	°C	76	89		

### Packaging (net weight, kg)

<b>Biresin<sup>®</sup> lineTEC<sup>®</sup> EP 70</b> Resin (A)	1100	200	20
<b>Biresin<sup>®</sup> lineTEC<sup>®</sup> EP 70</b> Hardener (B)	900	180	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 70 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

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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