

## Biresin® U1409 Elastomeric Casting resin with Shore A92

### Areas of Application

- Casting of flexible fixtures for parts for ultra sonic welding
- Manufacture of elastic, flexible moulds, mouldings and components

### Product Benefits

- Insensitive to moisture
- Good tear strength and elasticity
- Good low temperature flexibility

### Description

- Basis Two-component-PUR-system
- Component A **Biresin® U1409**, amine, beige, unfilled
- Component B **Biresin® U1409**, isocyanate prepolymer, yellowish-transparent, unfilled

Processing Data		Component A	Component B
<b>Individual components</b>		<b>Biresin® U1409</b>	<b>Biresin® U1409</b>
Viscosity, 25°C	mPa.s	~ 1,400	~ 4,000
Density	g/ml	1.05	1.09
Mixing ratio A : B	in parts by weight	100	100
Mixed viscosity, 25°C		~2,500	
Potlife, 500 g / RT	min	~ 30	
Demoulding time, RT	h	> 16	
Curing time, RT	d	7	

### Physical Data (approx. values)

Biresin® U1409 (A)		with component B		Biresin® U1409
Colour				beige
Density	ISO 1183	g/cm³		1.10
Shore hardness	ISO 868	-		A 92
Tear strength	ISO 34	N/mm		50
Tensile strength	ISO 527	MPa		12
Elongation at break	ISO 527	%		650

\* dependent on raw materials the colour can differ without different mechanical properties

### Packaging

Individual components	<b>Biresin® U1409 (A)</b>	10kg net
	<b>Biresin® U1409 (B)</b>	10kg net

## Processing

- The material temperature must be 18 - 25°C.
- The resin component (A) must be mixed thoroughly before use.
- Pay attention to dry conditions and dry mould surfaces while processing.
- The resin and hardener components are to be mixed thoroughly and poured immediately into previously released moulds (e.g. with Sika® Liquid Wax-815 resp. Sika® Pasty Wax-818; for more information see product data sheet).
- Porous surfaces (wood, gypsum) have to be well sealed before processing.

## Storage

- Minimum shelf life is 12 month under room conditions (18 - 25°C), when stored in original un-opened containers.
- After prolonged storage at low temperature, crystallisation of components may occur. This is easily removed by warming up for a sufficient time to a maximum of 70°C. Allow to cool to room temperature before use.
- 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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