

Biresin® U1404 (A) with hardener BF-620 (B) Elastomeric Casting Resin for Mould Making

Areas of Application

- Casting of flexible moulds for concrete, ceramic and gypsum processing
- Manufacture of elastic, flexible mouldings and components

Product Benefits

- Insensitive to moisture
- High elongation at break
- Good tensile strength and elasticity
- Low shrinkage

Description

- Basis Two component PUR system
- Component A **Biresin® U1404**, isocyanate prepolymer, colourless-transparent
- Component B **Biresin® BF-620**, amine, amber

Processing Data		Component A	Component B
Individual components		Biresin® U1404	Biresin® BF-620
Viscosity, 25°C	mPa.s	~ 6,500	~ 800
Density	g/ml	~ 1.05	~ 1.05
Mixing ratio A : B	in parts by weight	100	40
		Mixture	
Potlife, 500 g / RT	min	~ 10	
Demoulding time, RT	h	> 6 (depending on geometry)	
Curing time, RT	d	5 - 7	

Physical Data (approx. values)

Biresin® U1404 (A) with component B			Biresin® BF-620
Colour			amber*
Density	ISO 1183	g/cm³	1.1
Shore hardness	ISO 868	-	A 60 - 65
Tear strength	ISO 34	N/mm	9 - 11
Tensile strength	ISO 527	MPa	6 - 8
Elongation at break	ISO 527	%	450 - 550

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

Packaging

Individual components	Biresin® U1404 (A) Biresin® BF-620 (B)	200 kg; 8 kg net 200 kg; 20 kg net
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Processing

- The material, processing and mould temperature must be from 18 to 25°C.
- 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.
- 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

