

Biresin® 450

Elastomeric Casting resin for mould making, Shore A 87

Areas of Application

- Casting of flexible, high wear resistant moulds for concrete mouldings
- Casting of elastic recessed parts for concrete moulds
- High wear resistant moulds and mouldings

Product Benefits

- Good mixable by hand or with mechanical stirrer
- Good flowability
- Good abrasion resistance
- Good adhesion on dry, clean surfaces
- High impact resistance

Description

- Basis Two-component-PUR-system
- Resin **Biresin® 450**, polyol, beige, unfilled
- Hardener **Biresin® G53**, MDI-based isocyanate, amber, unfilled

Processing Data		Resin	Hardener
Individual Components		Biresin® 450	Biresin® G53
Viscosity, 25°C	mPas	approx. 900	approx. 175
Density	g/cm³	1.5	1.23
Mixing ratio resin to hardener	in parts by weight	100	42
		Mixture	
Mixed viscosity, 25°C	mPas	approx. 900	
Potlife, 500 g, RT	min	approx. 10	
Demoulding time, tool temperature 50°C	h	6	
Curing time, RT	d	1	

Physical Data (approx.-values)

Biresin® 450 resin		with hardener	Biresin® G53
Colour			brown
Density	ISO 1183	g/cm³	1.07
Shore hardness	ISO 868		A 87
Tear resistance	ISO 34	N/mm	17
Tensile strength	ISO 527	MPa	7
Elongation at break	ISO 527	%	65

Packaging

Individual components **Biresin® 450** resin 200 kg; 20 kg net
Biresin® G53 hardener 200 kg; 20 kg; 10 kg net



Processing

- The material temperature must be 18 - 25°C.
- The resin component 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® Trennmittel 810 or 815 Quick resp. Sika® Trennwachs 818 (for more information see Technical Data Sheet).
- Porous surfaces (wood, gypsum) have to be well sealed before processing.

Storage

- Minimum shelf life is 12 month under room condition (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 sufficient time to a maximum of 70°C. Allow to cool to room temperature before use.
- Containers must be closed water tight immediately after use and prevented from moisture. The residual material has to be used up as soon as possible.

Health and Safety Information

For information and advice on the safe handling and storage of products, users should refer to the current Safety Data Sheet 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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