

## **Silox® Bauharz 831**

Building resin, as bonding bridge and glue for wet surfaces

**Silox® Bauharz 831 is a specially formulated, reactive resin with excellent adhesion on wet, mineral substrates. It is particularly suitable as a bonding bridge for difficult substrates and for the permanent adhesion of concrete to fresh concrete.**

Silox® Bauharz 831 is a free of solvents liquid reaction resin and easy to use. Hardened layers of this resin are tough hard, clearly, shiny and tack-free. Silox® Bauharz 831 is an additionally activated version of our standard quality Silox® Bauharz 830. Designated for working at low temperatures or if low viscosity resins are required. Blend of both hardeners is possible (main components are identical).

---

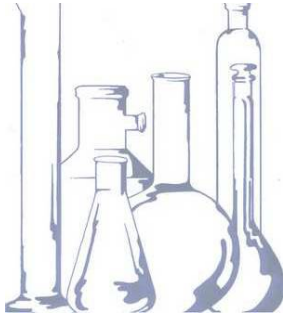
Due to the extraordinary good adhesion of this resin to many substrates, Silox® Bauharz 831 is an ideal and safe bonding bridge for subsequent coatings. It is also excellent for gluing of different materials. It is also excellently suited for bonding very different materials. Particularly noteworthy **is the excellent (and unequalled) adhesion of the resin to wet substrates.** Bonding bridges made of Silox® Bauharz 831 connect cement mortar or fresh concrete nearly irresolvable with old concrete, other mineral surfaces or even metal and a lot of plastics.

### **Typical Application**

- **Bonding bridge for fresh concrete and cement mortar for renovation works**
- **Bonding bridge for litter layers**
- **Repair mortar**
- **Bonding bridge for subsequent coating on PUR and epoxy resins**
- **Bonding bridge on building parts made of polyester resins**
- **Joint mortar for paving**
- **Glue for contact grouting of natural stones**
- **Mortar for pavement**

Silox® Bauharz 831 mixed with quartz sand or crushed stones generates high-quality polymeric mortars for laying and repair works, for grouting of piles, machine foundations or similar works.

## Product data



### Silox®Bauharz 831

Component A	Bisphenol A/F Glycidylether (oxirane resin)
Component B	Modified polyaminoamide
Ratio A : B	100 : 60 GT
Viscosity	Approx. 800 - 1500 mPa.s (20°C)
Reactive substances	100 %
Processing time	Approx. 20 - 25 Min (20°C)

## Processing

For processing, the master resin and hardener components are added together in a predetermined ratio and thoroughly mixed (stirring machine!), as is generally the case with 2 component systems. The mixed resin can then be processed immediately - without waiting or maturing times. The resin must not be diluted or mixed with other products.

All substrates must be clean and load-bearing. Substances that have a separating effect must be removed without leaving any residue. To ensure adequate wetting of the substrate, the resin must be applied to glossy, wet substrates with a brush in such a way that the water film on the surface of the building material is displaced (**brushing!**). This is not possible by application with rollers, squeegees or by spraying on.

Silox®Bauharz and 831 also adhere excellent on various plastics\*. Regarding to the unknown composition of the most technical plastics, we recommend a pretest for these applications.

**\*Not** on polymeres like PE, PP, PTFE !

*The product is not designed for bitumen bound substrates or mastic asphalt.* Please pay attention to known technical instructions for processing and application of reaction resins.

## Recommended auxiliary materials :

### HydroSolv®520

A highly efficient cleaning and rinsing agent for PU- and EP- injection machines and hoses. HydroSolv®520 is environment-friendly safety solvent with a high flaming point. It is non-toxic or harmful to the health. There is no need for identification letters and HydroSolv®520 has no transport restrictions.

**Mechanical Properties**

Test and Method	SILOX® Bauharz 831
Flexural strength , N/mm <sup>2</sup> (DIN 53454)	130
Bending at break, mm (DIN 53454)	13
Compressive strength , N/mm <sup>2</sup> (DIN 53455)	112
Compression, % (DIN 53455)	19,5
Tensile strength, N/mm <sup>2</sup> (DIN 53455)	72
Strain at break , % (DIN 53455)	5,5
Stability of shape a. Martens °C (DIN 53458)	68
Pendulum hardness a. König, in days at 20°C	180/5d

**Storage  
Work protection  
Disposal of waste**

The resin and hardener components of the product are not flammable, but are combustible. It must be protected from fire or radiant heat. The product should be stored in a cool and dry place and in such a way that it is not accessible to children and unauthorised third parties.

Avoid contact to skin, mucous membrane or eyes while handling. Wear suitable protective clothing and goggles during processing. Do not inhale aerosols (spray) during spray application. The relevant industrial safety regulations of the trade associations must be observed.

Hardened Silox® resins are chemical inert and can be disposed as normal construction waste, the liquid product residues are hazardous waste. The easiest way to make them harmless is mixing the both components together and wait until they are hardened. Empty containers with liquid adhesions are hazardous waste and must be disposed of according to local regulations for such waste.

These technical information describe the present-day state of knowledge these product. They should only inform about the possibilities of application and could not release the applicator of his commitment to check the possibility to use the product for the required application. Information for processing can be found in processing instructions of our product. Information about safe handling can be found in our current safety data sheet.

ATI-Silox® Bauharz 831 |11|2019  
© ARCAN GmbH  
All rights reserved

**ARCAN Waterproof**  
ARCAN GmbH Spezialbaustoffe

Kleinniedesheimer Strasse 19  
D-67240 Bobenheim-Roxheim  
Phone: +49 (0)6239 - 99 78 20  
Mail: [office@arcan.biz](mailto:office@arcan.biz)  
Web: [www.arcan.biz](http://www.arcan.biz)

