



## **SILOX®Bauharz 803nt**

Liquid resin with a wide range of applications

Silox®Bauharz 803nt is a solvent-free epoxy resin with an imidazole adduct as hardener. The product is easy and safe to process and can be used practically universally. Typical properties of Silox®Bauharz 803nt are -

- Its low viscosity
- The excellent substrate and filler wetting
- The excellent adhesion
- The perfect hardening, even under unfavourable conditions
- The excellent mechanical and chemical resistance

**and - most importantly -**

resin and hardener contain no volatile, irritating or dangerous ingredients, no benzyl alcohol and no problematic reactive thinners!

The mixing ratio of the resin and hardener components of Silox®Bauharz 803nt is volumetric 2 : 1, so that even small amounts can be easily measured "on site" and the product can be easily processed from (particularly economical) large containers.

Due to the perfect adduction of the hardener component used, even thin films cure fast, tack-free and without the surface defects often typical of amine hardeners.

Difficult substrates and fillers are excellently filled with Silox®Bauharz 803nt. This resin can be used to produce highly filled, low-binder polymer concretes, machine smoothable screeds, jointing mortars for paving or repair mortars as well as thin scratch coats, sprinkle coatings, bare resin coatings for sealing surfaces or laminates with fabrics or non-woven fabrics for reinforcing and strengthening components.

In all these applications the resin impresses by its easy and problem-free processing, but above all by the low stickiness typical for our ARCAN-NT resins.

### **Properties**



Chemical composition	: Urethane modified epoxy Liquid resin Imidazoline adduct as hardener component
Colour, characteristics	: Yellowish-transparent, oily liquids
Odour	: Very faint, typical
Density	: Approx. 1,10 gr/ml
Viscosity (mixture A/B)	: Approx. 240 mPa.s +/- 50 (20 °C)
Shelf life	: At least 12 months at 10 - 20 °C

### **Technical application data**

Surface	: Glossy, clear
Processing temperature	: Not below + 8° C
Potlife	: 30 Minutes at 20 °C
Ratio A:B	: 2 : 1 (by volume)
Mixing time A + B	: Min. 2 Minutes (with device)

## Technical values of mixtures

### Technical application data

Surface	: Glossy, clear
Processing temperature	: Not below + 8° C
Potlife	: 30 Minutes at 20 °C
Ratio A:B	: 2 : 1 (by volume)
Mixing time A + B	: Min. 2 Minutes (with device)

---

### Resin and hardener

Compressive strength*	: > 70 N / mm <sup>2</sup>
Bending tensile strength	: > 73 N / mm <sup>2</sup>
Hardness (Shore D)*	: 81

### Mortar of Silox®Bauharz 803nt and quartz sand

Compressive strength	: > 90 N / mm <sup>2</sup>
Bending tensile strength	: > 30 N / mm <sup>2</sup>
* after 7 days at 23 °C	

---

## Hardening At 10 °C

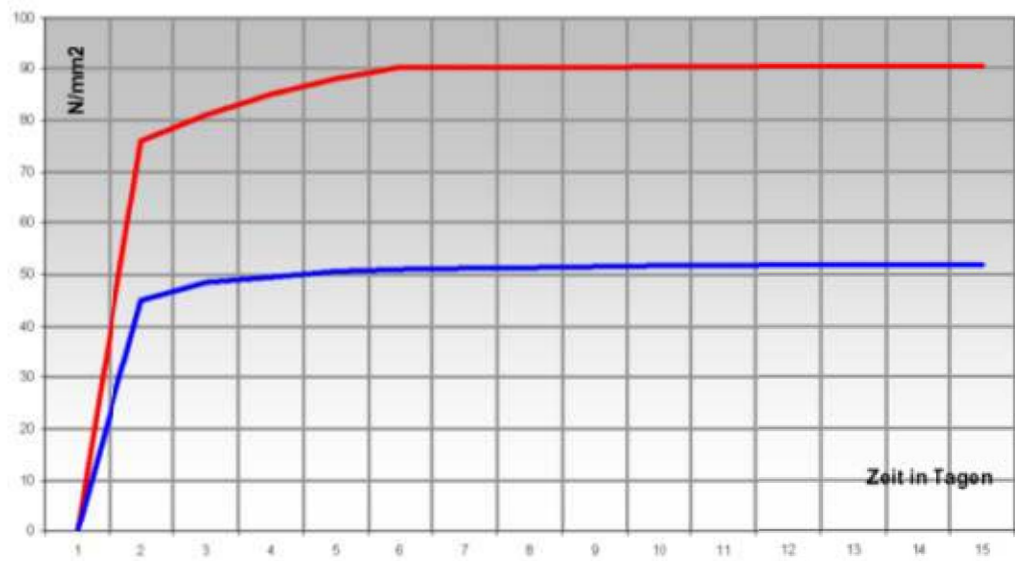
Tack-free and walkable	: after 36 hours
Slightly loadable	: after 5 days
To be fully loaded	: after 10 days

### At 20 °C

Tack-free and walkable	: after 12 hours
Slightly loadable	: after 3 days
To be fully loaded	: after 7 days

### At 30 °C

Tack-free and walkable	: after 10 hours
Slightly loadable	: after 2 days
To be fully loaded	: after 4 days



### Development of the compressive and bending tensile strength of mortar mixtures of quartz sand and Silox®Bauharz 803nt

**Red = Compressive strength**  
**Blue = Bending tensile strength**

When processing Silox®Bauharz 803nt, the usual industrial hygiene precautions for handling chemical products and national regulations (e.g. of the employers' liability insurance associations) must be observed.

Machines and tools can be cleaned with commercially available solvents. We recommend our safety solvent HydroSolv®520, which is not only very effective but also largely harmless, non-toxic and completely biodegradable.

Contaminations caused by set material are difficult to remove, we therefore recommend to protect adjacent components by masking and covering them and to always remove unavoidable contaminations immediately.

Safety data sheets are available for both components. They contain all current information on the safe handling and disposal of the products. We recommend making these data sheets available to all those who work with the products.

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 803nt|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)

passion to invent