

Silox®Bauharz 834

Casting resins and casting mortars for wet substrates

Silox®Bauharz 834 is a specially formulated reactive resin compound with excellent adhesion to wet mineral substrates. It is particularly suitable as a grouting mortar for anchor steels, posts and machine foundations in damp environments.

The product is a solvent-free liquid reaction resin and easy to process. Once cured, mortars made from this resin are tough and tack-free.

Due to the exceptionally good adhesion of this resin to many substrates, Silox®Bauharz 834 is an ideal and safe repair resin and also excellently suited for the safe and durable bonding of very different materials. Particularly noteworthy **is the excellent (and unmatched) adhesion of this resin to wet substrates.** Non-set mortars made of Silox®Bauharz 834 bond practically undissolubly even with fresh concrete and adheres not only to all mineral substrates and metals but even to many plastics.

Typical applications

- **Repair mortar for concrete floors and concrete roadways**
- **Flowing mortar for coating works**
- **Repair mortar**
- **Laying grout for natural and artificial stones**
- **Laying grout for paving**
- **Anchor mortar**
- **Casting mortar for railing posts**
- **Casting mortar for rebar connections**

By mixing with a pre-formulated levelling agent, Silox®Bauharz 834 is transformed into a stable polymer mortar which can also be applied to vertical surfaces or "overhead" without difficulty. The experienced processor thus has the opportunity to easily adapt the product to all requirements on site.

Product Data

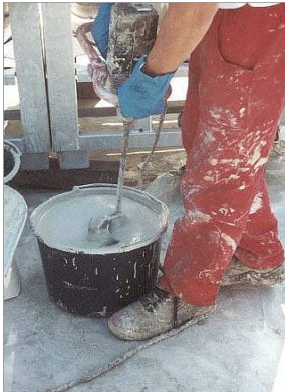
Silox®Bauharz 834

Component A	Bisphenol A/F glycidyl ether (oxirane resin)
Component B	Modified polyaminoamide
Component C	Surface-treated silicate fillers
Mixing ratio A : B	100 : 60 GT
Mixing ratio A/B : C	1:1 (recommended)
Viscosity	Approx. 2500 - 3500 mPa.s (20°C)
Reactive polymer components	100 %
Processing time	Approx. 40 - 60 Min (20°C)

Processing

For processing, the master resin and hardener components are first mixed together in a predetermined ratio and thoroughly (stirring machine!) as is usual with 2 component systems, then the intended/necessary quantity of filler (/C-component) is homogeneously stirred in. The mixed mortar can then be processed immediately - without waiting or maturing times. The mixture must not be diluted or mixed with other products.

For mixing larger quantities and for highly filled mixtures, we recommend the use of compulsory mixers. For optimum mixing results with short mixing times, it is often advisable to charge the mixer with the liquid component already premixed from the master resin and hardener component.



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 in such a way that the water film on the surface of the building material is displaced (**slurrying**). *This is not possible by simple application with a squeegee or trowel.*

Silox®Bauharz 834 also has excellent adhesion to many plastics*. Since the exact composition of most engineering plastics is often unknown, preliminary tests are always recommended for this application.

***Not** on non-polar polymers such as PE, PP, PTFE !

This product is not intended for bitumen-bound substrates and mastic asphalt. Furthermore, the known technical rules for the processing and application of reactive resins also apply to Silox®Bauharz 834

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 Features

Testing and method	Silox®Bauhartz 834
Flexural strength , N/mm ² (DIN 53454)	101
Deflection at break, mm (DIN 53454)	9
Compressive strength , N/mm ² (DIN 53455)	85
Compression% (DIN 53455)	17
Tensile strength, N/mm ² (DIN 53455)	62
Elongation at break, % (DIN 53455))	4
Dimensional stability n. Martens °C (DIN 53458)	62
Pendulum hardness according to König, in days at 20°C	180/7d

**Storage
Industrial safety
Disposal**

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

When handling the components, contact with skin, mucous membrane and eyes must be avoided. Suitable protective clothing and goggles must be worn during processing. Under no circumstances may aerosols (spray mist) produced during the spray application be inhaled. The relevant industrial safety regulations of the trade associations must be observed.

Reacted Silox®resins are chemically inert and should be treated as normal construction waste, the liquid product residues are hazardous waste. They can be reacted and thus rendered harmless most easily by mixing with the second component. Empty containers with liquid adhesions are hazardous waste and must be disposed of in accordance with 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.

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