



Silipox®Baukleber 824

Epoxy-resin for use as adhesive and filler in construction applications

Silipox®Baukleber 824 is a solvent free, paste-like adhesive based on epoxy-resins. The product consists from two components. It is easy to use and has excellent properties to stick on all mineral surfaces, metal and many types of plastic. The cured product is a hard-elastic plastic with high strength.

Both components contain mineral fine fillers and are matched to each other in such a way that they can be mixed volumetrically or by weight 1 : 1. The components are pigmented differently in terms of colour. When the components are mixed, the result is a uniformly coloured adhesive, so the correct mixing of the components is easy to recognise visually.

**Wide application range -
as adhesive, plug, repair
mortar and to dam
cracks**

Silipox®Baukleber 824 can be used wherever concrete, natural and artificial stone or ceramics (stoneware) must be permanently bonded to itself or to metal, many plastics* or wood. Adhesion and cohesion of the adhesive joint are greater than the inherent strength of a high-quality concrete, so that under load the strength of the bond is always higher than that of the building materials bonded by the adhesive.

Typical applications for Silipox®Baukleber 824 include the use as an adhesive filler to stick natural stone slabs over a large area (e.g. for stair), the liquid-tight laying of tiles or stone coverings, even when subjected to high mechanical loads (e.g. for industrial floors), the bonding/fixing of anchors and dowels in drilled holes (e.g. for machine foundations) and the pressure-water-tight sealing of tensioning points (wall thicknesses) made of fibre concrete. The incorporated fillers are so finely divided that Silipox®Baukleber 824 can be drawn out "to zero", the product can therefore also be used as a repair filler. It is also possible to add rough fillers (preferably quartz sand, but chippings or other dry aggregates are also suitable) to Silipox®Baukleber 824.

*Not suitable for polyethylene (PE) or polypropylene (PP)

Processing

For processing mix both components A and B 1:1 (by volume or by weight). Use an suitable, clean and dry bucket. Mix thoroughly by using a drilling machine with an appropriate mixing equipment. Mixing by hand is not suitable. The mixed product has to show an uniform colour.

**Mixture of the
Components 1:1
Therefore simple
and easy to
process**

After mixing, the product is immediately ready to use. Always mix only as much material as can be processed in a reasonable time. Large quantities of material lead to a self-acceleration of the reaction due to the reaction heat released during setting - the processing time can be drastically reduced. High material or ambient temperatures also shorten the pot life (as with all reactive resins). Processing temperatures < 20° extend the pot life and setting time, at temperatures < 5° the product does not harden any more (the reaction "freezes") or the setting reaction is interrupted to continue reacting normally after the temperature has risen (a typical property of epoxy resins).

The materials to be bonded should be dry or matt damp, clean and free from separating impurities. A non-positive bond with concrete surfaces requires that dust and crumbly fine layers ("cement slurry") are removed and the load-bearing core concrete is exposed. Metals must be clean and free of grease.



We recommend HydroSolv®520, a safety solvent specially formulated for our Silipox® resins, as a cleaning agent and solvent for cleaning machines and equipment. If necessary, solvents such as acetone, xylene or toluene can also be used. (CAUTION - flammable and hazardous to health!).

Dirt caused by hardened epoxy resin is very difficult to remove. It is therefore advisable to take the necessary protective measures by covering etc. and to remove fresh dirt immediately.

Product data



Components	: 2 (A + B)
Mixing ratio	: A:B = 1 : 1 by volume or by weight
Colour (mixed)	: Grey (similar to concrete)
Density (mixed 1:1)	: Approx. 1,2 gr/ml at 20°
Viscosity (mixed 1:1)	: Soft paste-like mass, no longer flowable
Potlife/reaction time at 20°C	: Approx. 60 Min
Minimum application temp.	: ≥ 10° C
Adhesion on concrete	: ≥ 6 kN/mm ² (breakage in concrete)

Security advice Storage

When used as an adhesive as intended, Silipox® is physiologically largely harmless. Nevertheless, we recommend wearing protective clothing and goggles. The national regulations (e.g. of the trade associations) for the processing of epoxy resins must be observed. The labelling of the product complies with the regulations of the German Hazardous Substances Ordinance and the corresponding directives of the European Union.

In case of direct eye contact with the basic components or the mixture, always rinse with plenty of water for 15 minutes and then as a precautionary measure consult a specialist immediately.

The product must be stored in a cool, dry place and in such a way that it is not accessible to children. It must not be stored together with food and is not intended for consumption by humans or animals. Silipox®Baukleber 824 can be stored well sealed for at least 12 months.

Further and detailed information on the safe handling of this product can be found in the safety data sheet for Silipox®Baukleber 824. We also draw attention to the brochure "Epoxy resins and hardener toxicology, occupational safety and the environment" published by the "Association of Plastic Manufacturers in Europe". Further information on this subject can be found there.

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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ARCAN Waterproof

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