

# festkleber Multi

## Bonding/filling/repairing



**FESTKLEBER Multi is a multifunctional epoxy resin compound for bonding, filling and repairing the concrete and natural stone**

**The versatility of FESTKLEBER Multi lies in the ability to perform a wide range of tasks with one product. The advantage over other epoxy resin adhesives is its tolerance to water. This enables fast processing and versatile application of the material.**

First application: FESTKLEBER is an extremely viscous resin adhesive for bonding precast concrete elements, closures and seals in sewer and drainage systems at the concrete/plastic joint and glueing broken concrete elements. The adhesive can be applied to wet and moist surfaces, which is not possible with other epoxy mortars.

Second application: with the addition of approx. 40 ml of water per 1 kg of product, FESTKLEBER is a perfect filler. After application the material can be smoothed out very well by spraying it with water and treating it with a spatula. It is also possible to give the compound a fine texture with a brush or other tool. With regular epoxy adhesives, the high viscosity prevents good smoothing and the use of organic solvents causes damage to the surface structure.

A third application of the adhesive is the repair of concrete parts and the filling of large cavities in concrete.

Technical values of FESTKLEBER Multi:  
Compressive strength after 7 days - 50 N/mm<sup>2</sup>  
Flexural strength after 7 days - 20 N/mm<sup>2</sup>  
Adhesive strength 4 N/mm after 7 days at 20°C

Processing time - 20 min. at 20°C

Chemical resistance of the hardened mixture:  
Fully resistant to diluted acids, alkalis and municipal waste water.

### **Preparation of the base:**

The base should be dry, solid and free of dust, dirt, grease and milk. The concrete surface should have a temperature of at least 5°C. Both surfaces must not be icy.

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### For glueing work:

The epoxy resin system consists of component A (dark) and component B (light) as separate materials in a bucket. Mix component B with a low-speed mixer, add component A and continue mixing for at least 3 minutes (optimally 4-5 minutes) without adding water. For bases with poor adhesion, it is recommended to create an adhesive paste. For the adhesive paste, take a small amount of the Festkleber and mix it with water until the consistency of a thick cream is achieved. Use this adhesive paste to treat the substrate or apply a layer of adhesive with a brush. The appropriate adhesive layer is then immediately applied to the adhesive paste using the wet-on-wet method.

### For filling:

For the second area of application, filling and smoothing, add 40 ml of water per 1 kg of the mixture after mixing components B and A and mix thoroughly. The water can be added in different quantities as required to achieve an appropriate layer thickness and flexibility. However, no more than 100 ml of water per kg of mixture should be used.

### For repair:

An adhesive paste should be prepared beforehand like for the glueing application and rubbed into the clean surface. The thickness of the adhesive paste should be about 1 mm. Add 1-1.6 mm or 2-3 mm of gravel or chippings to the Festkleber in a quantity of approx. 20-25 %, mix thoroughly, shape to the desired form and press onto the adhesive paste. The surface of the compound can be smoothed with a wet brush, sponge or wet steel sponge.

Improper mixing will result in poor performance, poor curing and release of hazardous substances into the environment. Apply the Festkleber using standard stainless steel tools, e.g. scrapers, spatulas, trowels.

To reduce the adhesion of the material to the tools, they should be moistened or sprayed with water during work. Wash the tools with water during the initial hardening phase and then with a solvent for epoxy resin. Hardened remains can only be removed mechanically. Detailed information on the risks to humans and the environment can be found in the safety data sheet for components A and B.

### Basic safety requirements:

Put on safety glasses and rubber gloves before opening the packaging.

Reference document: Standard EN 1504-3

Packaging of 6 kg each.