

FloorBridge® Connect 03 (rapid)

2-part epoxy resin-based composite adhesive

Areas of Application:

As an adhesive and mortar for force-fitted connection of old and new concrete with FloorBridge® joint profiles.

Advantages:

- easy to mix and to apply
- high initial and final strength
- good abrasion and impact resistance
- very good adhesion to cement-bound substrates
- good chemical resistance
- high mechanical strength

Product Data:

Colours:

- Part. A: white
- Part. B: dark grey
- Part. A+B mixed: grey

Packaging:

- Unit 30 kg
- Part. A: 20 kg
- Part. B: 10 kg
- Pallet unit: 360 kg = 12 units à 30 kg
(12 x 20 kg part. A and 12 x 10 kg part. B) = 1 pallet

- Unit 9kg
- Part. A: 6kg
- Part. B: 3 kg
- Pallet unit: 270 kg = 30 units à 9 kg
(30 x 6 kg part. A and 30 x 3 kg part. B) = 1 pallet

Technical Data:

Chemical Base: Epoxy resin

Density (+23°C): approx. 1,5 kg / litre (Part. A+B, mixed)

Layer Thickness: max. 5 mm per operation

For higher layer thickness apply in several layers. When using multiple units, mix and use completely one unit after the other. Do not mix the following unit until the previous one has been fully used in order to avoid a reduction in pot life and application time.

Mechanical / Physical Properties:

Compressive Strength:

Curing time	Curing temperature	
	+5°C	+15°C
3 days	approx. 26 N/mm ²	approx. 45 N/mm ²
7 days	approx. 39 N/mm ²	approx. 53 N/mm ²
14 days	approx. 41 N/mm ²	approx. 55 N/mm ²

Bond Strength:

At +20°C: on dry concrete: > 2 N/mm² (concrete failure)

Application Details:

In addition to the product data sheet, please note the respective instructions in the FloorBridge® installation manual.

Consumption / Dosage: 1,5 kg/m² per mm of thickness

Substrate Conditions:

The substrate must be sufficiently stable (compressive strength min. 25 N / mm²). The substrate must be level, fine-grained, solid, dust free, dry, free of grease, oil and other contaminants and free of loose and sanding parts. The pull-out strength must not be less than 1.5 N / mm². If necessary, the substrate must also be dried (residual moisture in concrete is max. 4 %).

Application Conditions / Limitations:

Substrate Temperature: +8°C to +25°C

Ambient Temperature: +8°C to +25°C

Material Temperature: +8°C to +25°C

Dew Point:

Observe dew point, exclude condensation!

Substrate temperature during application must be at least +3°C above dew point.

Application Instructions:

Mixing:

Part A : part B = 2 : 1 (by weight or volume)

Mix with electric mixer for at least 2 minutes until it becomes a homogeneous colour mixture, streak-free. Mix at low speed (300 – 400 rpm) to avoid air inclusions while mixing.

Then, empty the entire mix into a clean container and mix again for approx. 1 more minute.

Mix only that quantity of FloorBridge® Connect 03 which can be used within its pot life.

Application Method / Tools:

When applying the adhesive in a thin layer, apply the mixed adhesive to the prepared substrate with a spatula, trowel, notched trowel etc. Before, during and after coating, attention must be paid to the dew point distance (+3°C).

Cleaning of Tools:

Clean all tools and application equipment immediately after use with commercial epoxy resin cleaner. Hardened / cured material can only be mechanically removed.

Pot life:

At +15°C max. 15 minutes (6 kg-mixture).

The pot life begins when the resin and hardener mixing starts. When mixing larger quantities there is a higher heat of reaction which shortens the pot life.

Grinding:

At +20°C after approx. 4 ½ hours.

Value Base:

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Curing Conditions:

Notes:

The FloorBridge® resin is formulated to have low creep under permanent loading. However due to the creep behaviour of all polymer materials under load, the long-term structural design load must account for creep. Generally, the long-term structural design load must be lower than 20-25 % of the failure load. In this case additional safety factors do not need to be considered. Exposure to UV-radiation leads to colour change. If FloorBridge® Connect 03 is to be reworked with a suitable coating material, the freshly applied adhesive must be sprinkled with quartz sand.

Safety Information:

Important Safety Information:

For detailed information refer to the most recent Safety Data Sheet at www.floorbridge.com.

Storage conditions / Shelf Life:

12 months from date of production if stored properly in original, unopened, sealed and undamaged packaging, in dry conditions at temperatures between +10°C and +25°C. Protect from direct sunshine.

Legal Notes:

The information, and, in particular, the recommendations relating to the application and end-use of FloorBridge® products, are given in good faith based on the current knowledge and experience of FloorBridge® International GmbH about the products, and apply if properly stored, handled and under normal conditions in accordance with FloorBridge® International GmbH recommendations.

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