



# FloorBridge® Connect 03



## 2-part fast-curing composite adhesive based on epoxy resin

### Description

FloorBridge® Connect 03 is a thixotropic two part adhesive based on epoxy resin.

### Uses

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

### Advantages

Easy to mix and apply  
Can be applied to matt damp concrete surfaces  
High initial and final strength  
Different coloured components (for mixing control)  
No primer needed  
Good abrasion and impact resistance  
Very good adhesion to most construction materials  
Good chemical resistance  
High mechanical strength

### Product Data

#### Form

#### Colours

Part A: white  
Part B: black  
Parts A+B mixed: grey

#### Packaging

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

#### Storage conditions / Shelf Life

24 months from date of production if stored properly in original unopened, sealed and undamaged packaging, in dry conditions at temperatures between +5°C and +25°C. Protect from direct sunshine.

### Technical Data

#### Chemical Base Density Layer Thickness

Epoxy resin.  
ca. 1,5 kg / liter (part A+B at +23°C, mixed)  
30 mm max.

When using multiple units, one after the other. Do not mix the following unit until the previous one has been used in order to avoid a reduction in handling time.



## Mechanical / Physical Properties

### Compressive Strength

| Curing time | Curing temperature        |                           |
|-------------|---------------------------|---------------------------|
|             | 5°C                       | 20°C                      |
| 1 day       | 33 - 43 N/mm <sup>2</sup> | 52 - 62 N/mm <sup>2</sup> |
| 3 days      | 53 - 63 N/mm <sup>2</sup> | 58 - 68 N/mm <sup>2</sup> |
| 7 days      | 58 - 68 N/mm <sup>2</sup> | 69 - 79 N/mm <sup>2</sup> |

### Flexural Strength

| Curing time | Curing temperature        |                           |
|-------------|---------------------------|---------------------------|
|             | 5°C                       | 20°C                      |
| 1 day       | 9 - 19 N/mm <sup>2</sup>  | 21 - 31 N/mm <sup>2</sup> |
| 3 days      | 16 - 26 N/mm <sup>2</sup> | 23 - 33 N/mm <sup>2</sup> |
| 7 days      | 21 - 31 N/mm <sup>2</sup> | 25 - 35 N/mm <sup>2</sup> |

### Bond Strength

at +20°C: on concrete dry and matt damp: > 4 N/mm<sup>2</sup> (concrete failure) after 24 hours

## System Information

### Application Details

#### Consumption / Dosage

1,5 kg/m<sup>2</sup> per mm of thickness

#### Substrate Quality

The substrate surface must be clean, dry or matt damp and free from standing water, ice, grease and oils, dust, old paint, loose particles and other contaminants. Verify the substrate strength.

## Application Conditions / Limitations

#### Substrate Temperature

min. +5°C  
max. +25°C

#### Ambient Temperature

min. +5°C  
max. +25°C

#### Material Temperature

min. +5°C  
max. +20°C

#### Dew Point

Beware of 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 parts A+B together in a mixing ratio 2 : 1.

Mix with electric mixer for at least 3 minutes until it becomes a homogeneous colour streaks-free mixture. Mix at low speed to avoid aeration while mixing. Then, pour the whole mix into a clean container and stir again for approx. 1 more minute.

Mix only that quantity of FloorBridge Connect 03 which can be used within its potlife.

### Application Method / Tools

When using a thin layer adhesive, apply the mixed adhesive to the prepared surface with a spatula, trowel, notched trowel etc. or with hands protected by gloves.

### 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.

### Potlife

At +20°C max. 25 minutes (6 kg-mixture).

The potlife begins when the resin and hardener are mixed. When mixing larger quantities there is a higher heat of reaction which shortens the potlife.

### Sandable

At + 20°C after ca. 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. Please consult a structural engineer for load calculations for your specific application.

## Safety Information

### Important Safety Information

For detailed information refer to the most recent Safety Data Sheet at [www.floorbridge.com](http://www.floorbridge.com).

## Legal Notes

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