

## FloorBridge® Connect 20

PMMA based compound adhesive



### Application

Adhesive and adhesive mortar for friction-locked connections of and in old concrete and new concrete with FloorBridge® joint profiles.

### Advantages

- easier workability, easier mixing
- quick hardening
- excellent adhesion on various surfaces
- good hydrolysis resistance
- high mechanical strength
- solvent-free

### Product Data

<b>Colour shade base compound (Connect 20)</b>	grey
<b>Catalyst powder (Connect 20 catalyst)</b>	white
<b>Mixed</b>	grey
<b>Delivery size</b>	Container 10 kg Catalyst 100 g (45 x 10 kg base compound = 1 Pal)
<b>Approval</b>	CE mark in accordance with EN 1504-3

### Technical Data

<b>Chemical basis</b>	Polymethylmethacrylate
<b>Density (23°C)</b>	approx. 1.5 kg/l (mixed)
<b>Coating thickness</b>	max. 5 mm per application
Greater coating thicknesses require multiple applications. To prevent shortening the workability time, individual containers should be used up and never mixed with freshly prepared material.	



### Mechanical/physical properties

#### Compressive strength

<b>Curing time*</b> (20°C, 100 g catalyst for 10 kg master mass*)	
<b>3 hours</b>	<b>50 N/mm²</b>
<b>24 hours</b>	<b>60 N/mm²</b>
<b>7 days</b>	<b>60 N/mm²</b>

\*Catalyst addition depending on temperature application range – see table catalyst dosing.

#### Adhesive tensile strength

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

#### Application notes

In addition to this product data sheet, please observe the relevant notices in the FloorBridge® installation manual.

## Usage / dosing

1.5 kg/m<sup>2</sup> per mm coating thickness

### Substrate condition

The substrate must have sufficient load capacity (compressive strength at least 40 N/mm<sup>2</sup>). The surface must be level, fine textured, stable, dust-free, dry, grease and oil free and free from loose and sanding particles. The tear strength must be at least 1.5 N/mm<sup>2</sup>. If necessary, the substrate must be dried. The surface to be coated must be dry and free from ice. The surface must remain dry until it has hardened. (Remaining moisture for concrete max 6%). If the substrate requires re-profiling, we recommend PMMA or epoxy mortar with a compressive strength of at least 40 N/mm<sup>2</sup>. For example, we recommend epoxy-based product FloorBridge® epoxy mortar 300. Carry out preliminary tests.

### Application conditions/limits

<b>Substrate temperature</b>	-15°C to +30°C
<b>Ambient temperature</b>	-15°C to +30°C
<b>Material temperature</b>	+10°C to +30°C

An application at lower temperatures is possible. For information, please contact FloorBridge.

Always store adhesive and joint profiles at temperatures above +10°C. Also, mix and apply adhesive to the joint profile at > 10°C, even when installing at lower temperatures. This allows the material to react without any problems.

### Dew point

Observe the dew point and exclude condensation! The substrate temperature during the application must be at least +3°C above the dew point temperature. The relative humidity must be < 90%.

### Application instructions

The reaction times will shorten with increasing temperatures and higher catalyst ratios, and vice versa accordingly. The following table indicates the recommended catalyst quantity to adapt the hardening reaction to the temperature.

	Catalyst dosing FloorBridge® Connect 20 catalyst									
Substrate temperature in °C	-15	-10	-5	0	5	10	15	20	25	30
Catalyst addition in %	6	6	3	3	2	2	1	1	1	1

### Application method and devices

Recommended mixer with Dippel blade mixing head. To apply a thin adhesive coating, apply the mixture to the pre-treated substrate with a putty knife, trowel, etc. Observe the dew point gap (+3°C) before, during and after coating.

### Mixing

To start, mix the contents of the bucket thoroughly. Then slowly add the catalyst to the running mixer and mix for 2 minutes. Make sure the material on the bottom and the edge of the container is included. At material temperatures below 10°C, mix for 5 minutes because the catalyst needs more time to dissolve.

### Device cleaning

All tools and application devices must be cleaned immediately after use with a conventional cleaner for PMMA. (e.g.: ethyl acetate) Hardened material can only be removed mechanically.

### Potlife

At +20°C and 1% catalyst approx. 30 minutes  
The potlife starts with the mixing. Mixing larger quantities will generate a higher reaction temperature. This shortens the potlife.

### Rainproof

At +20°C after approx. 45 minutes.

### Grinding/walkable:

At + 20°C after approx. 60 minutes

### Hardened

At +20°C after approx. 60 minutes

### Sealing

The joint profile and the existing adhesive coating between profile and concrete can be sealed after grinding. Products on binder base PMMA (FloorBridge®), polyaspartic, epoxy and PU are suitable. However, tests before are recommended.

### Further notes

All values listed on the technical data sheet are based on laboratory trials. In practice, the values may deviate due to various influences.

### **Curing conditions**

#### **Notes**

The FloorBridge® compound adhesive was formulated to have the least possible creeping under continuous loads. Due to the creep behaviour, which all polymers have under loads, creeping must be taken into account when calculating the permissible load. The constant actual load on the bonding must never exceed 20-25% of the breaking load. No additional safety factors must be considered in this case. Exposure to UV radiation causes the colour to change.

### **Safety regulations**

#### **Important safety notes**

For detailed information, please consult the current safety data sheet at [www.floorbridge.com](http://www.floorbridge.com)

### **Storage conditions / shelf life**

12 months from the date of production in the unopened container. The products must be stored cool, dry, frost-free and closed airtight. Exposure of the containers to direct sunlight must be avoided, including at the construction site. Always close the containers airtight after partial use!

### **Legal Notes**

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