

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

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

Technical Data

Chemical basis	Polymethylmethacrylate
Density (23°C)	approx. 1.5 kg/l (mixed)
Coating thickness	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 (EN 12190)

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

*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/m² per mm coating thickness

Substrate condition

The substrate must have sufficient load capacity (compressive strength at least 40 N/mm²). 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/mm². 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/mm². For example, we recommend epoxy-based product FloorBridge® epoxy mortar 300. Carry out preliminary tests.

Application conditions/limits

Substrate temperature -15°C to +30°C

Ambient temperature -15°C to +30°C

Material temperature +10°C to +30°C

Catalyst dosing according to table

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.

The joint profiles must be frost-free for bonding and must not exceed 35°C.

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.

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.

The joint profiles must be frost-free for bonding and must not exceed 35°C.

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 pot life begins when mixing. Mixing larger quantities generates more heat of reaction. This shortens the pot life. At lower temperatures, mixing must be carried out for longer, as the catalyst takes longer to dissolve – this affects the pot life.

Bonding SM sealing tape / wall connection rubber

When bonding SM sealing tape, ensure that the tape (except for the expansion zone) is fully covered on both sides. (This is particularly important in the upward pull area).

When bonding the wall connection rubber with Connect 20, a wall panel must be bonded immediately after bonding as protection.

Rainproof

after approx. 45 minutes.

Grinding/walkable:

after approx. 60 minutes

Drivable over:

after appr. 3 hours

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

Storage conditions / shelf life

12 months in unopened containers from the date of production. The products must be stored in a cool, dry, frost-free, and airtight container. The composite adhesive must be brought to a temperature of at least 10°C before use. Direct sunlight on the containers should also be avoided on the construction site. After partial removal, reseal the containers airtight!

Legal Notes

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