



# FLOWBED®

## Tile adhesive for single-coated gluing of large-size tiles

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<b>POLYTECHNISCH BEDRIJF BVBA/SPRL – P.T.B.-COMPAKTUNA®</b> <b>INDUSTRIEPARK ZWIJNAARDE 6</b> <b>9052 GENT – BELGIUM</b>	
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048/CPR/130701 EN 12004+A1	
<b>FLOWBED®</b> <b>Cementgebonden tegelijm/binnen en buiten/zeer snelle uitharding</b> <b>Ciment colle/intérieur et extérieur/durcissement très rapide</b> <b>Cementitious adhesive/internal and external/fast setting</b> <b>Schnell enthaltender zementhaltiger Klebemörtel/Innen und Außen</b>	
Brandklasse/Réaction au feu/Brandverhalten/Reaction to fire:	NPD
Hechtsterkte als/Force d'adhérence/Klebkraft/Bond strength as:	
- hechting na 6 u/adherence après 6 h/Frühhaftzugfestigkeit (6 St.)	≥ 0,5 N/mm <sup>2</sup>
- initiele hechting/adherence initiale/Haftzugfestigkeit nach Trockenlagerung/initial tensile adhesion strength (28 days)	≥ 1 N/mm <sup>2</sup>
Duurzaamheid/Stabilité d'adhérence/Haltbarkeit/Durability for:	
- hechting na veroudering onder hoge warmte/aprés action de la chaleur/Haftzugfestigkeit nach Warmlagerung/tensile adhesion strength after heat ageing	≥ 1 N/mm <sup>2</sup>
- hechting na onderdompeling in water/aprés immersion/Haftzugfestigkeit nach Wasserlagerung/tensile adhesion strength after water immersion	≥ 1 N/mm <sup>2</sup>
- hechting na vorst-dooicyclus/aprés gel-dégel/Haftzugfestigkeit nach Frost-Tauwechsel-Lagerung/tensile adhesion strength after freeze-thaw cycles	≥ 1 N/mm <sup>2</sup>
Vrijstelling gevaarlijke substanties/Emission de substances dangereuses/ Freisetzung von gefährlichen Stoffen/Release of dangerous substances	MSDS



### Characteristics



+30°

+5°

FLOWBED® is a dry composition that by simple addition of water produces a ready-to-use, thixotropic adhesive with a high flexibility.

1. This adhesive is specially conceived for gluing large size tiles (up to 80 x 80 cm) using a single adhesive coating. In this way, it is possible to apply the adhesive with a coat thickness of 1 mm up to 2 cm so that the unevenness of the large-size tile can be compensated by adapting the thickness of the adhesive.
2. The adhesive is characterized by a long open time, on the one hand, and a fast curing, on the other hand allowing the floor to be jointed after a minimum of 6 hours and to take it into service rapidly.
3. An extraordinary bond and a 'flowbed' adhesive of the type C2 FG that is easily compressible.
4. Good elastic properties allowing for applications on floor heating (maximum tile size 60 x 60 cm) and the gluing of tile to tile (only for indoor use).

With FLOWBED® it is possible to glue following materials, both indoors and outdoors: faïence, ceramic, mosaic, etc., and this on surface such as e.g. concrete, masonry work, cementing work, cement screeds, etc.

When gluing natural stone, one should take into account the porosity of the natural stone and the possible discolouring due to the colour of the glue.

#### TECHNICAL CHARACTERISTICS

Corresponds to the requirements according NBN EN 12004

Initial tensile adhesion strength after 28 days (C2)	≥ 1
Initial tensile adhesion strength after 6 hours (F)	≥ 0,5
Tensile adhesion strength after water immersion (C2)	≥ 1
Tensile adhesion strength after heat ageing + 70°C (C2)	≥ 1
Tensile adhesion strength after freeze-thaw cycles (C2)	≥ 1
Open time: tensile adhesion strength after 20 min.	≥ 0,5

#### Mixing ratio

± 6 litres of water per bag of 25 kg for floors (approx. 24%)

#### Consumption

1.5 kg/mm/m<sup>2</sup> in powder form

#### Packaging

25 kg PE

#### Colours

Grey

#### Processing time

± 1h

#### Application temperature

+ 5°C till + 30°C

## Directions for use

One always works on a clean, healthy surface that is free of dust and oil and that is stable. Strongly absorbing surfaces are pretreated with a COMPAKTUNA® (PRO)/water solution (1/4) or with P.T.B.-PRIMER. FLOWBED® is produced with approximately 24% of water, this being approximately 6 litres of water to 25 kg of product depending on the required consistency.

Pour about 4/5 of the required quantity of water into a mortar tub or into a mechanical mixer, and add the dry tile adhesive slowly and steadily. Mix the whole mass with a slowly rotating mixer until a mass free of lumps is obtained. Next add the remaining fifth part of the quantity of water, and mix once again until a homogeneous mass is obtained. After letting it set for 5 minutes, the mortar is once again stirred around vigorously. The adhesive is now ready for use.

On the surface, first apply a thin coating using a trowel or serrated trowel. This coating is firmly compressed. Immediately apply a second coating on top, distributing it in regular strips using a serrated trowel. The serrated trowel is chosen in function of the evenness of the tile and the desired thickness of the glue.

The tile is pressed into the spread adhesive with a back-and-forth motion, and adjusted at the right spacing. It is recommended to apply the quantity of adhesive with the appropriate serrated trowel. Always put the tile in line with the strips so that as much air as possible can escape.

Jointing (P.T.B.-JOINT HY or P.T.B.-JOINT-BREED) will not be done until the adhesive has sufficient resistance (wait at least 6 hrs - depending on temperature and air humidity).

## Remarks

- The contact area between tile and adhesive should be at least 80%. A full adhesive coating is recommended for outdoor applications and heavy-duty surfaces.
- The construction of the joints is conceived in such a way that occurring stresses (e.g. due to expansion) can be absorbed by the tile surface. Restraints against the floor, columns, etc. should be avoided; expansion joints in the supporting surface should be copied in the tile surface. All these joints are to be sealed with an elastic jointing kit (P.T.B.-SILICONE SN & NA). The width of the joints must be adequate to be able to absorb the possible expansion of the tiles due to temperature differences.
- For the laying of large-size tiles and natural stone tiles having very large thicknesses (up to 4 cm), we recommend using P.T.B.-EGALCOL produced with a COMPAKTUNA® (PRO)/water solution (1/3).
- FLOWBED® is a ready-to-use product. No cement, plasticizer, sand or other additives are to be added.
- The processing temperature ranges from + 5°C to + 30°C (applies to both the base and the ambient). Do not apply in direct sunshine.
- When preparing FLOWBED®, the directions for use must be strictly observed. The adhesive can become unusable when mixing it too long or at a too high mixing speed.
- In some cases, a base layer with COMPAKTUNA® (PRO)/ water (1/4) or P.T.B.-PRIMER may be necessary.
- For non-compatible substrates, such as an anhydrite screed, after drying (the maximum mass moisture content should be 0.3%) and any pre-treatment (sanding, ask the supplier of the screed for advice) the substrate must be pre-treated with a COMPAKTUNA® (PRO)/ water solution (1/3) or with P.T.B.-PRIMER. Then wait 24 hours before starting the adhesive coating.

## Packaging

FLOWBED® is available in grey colour in polyethylene bags of 25 kg. The shelf life is 12 months in the original, closed packaging and kept dry.

