



P.T.B.-NORMFLEX

Flexible tile adhesive for indoor and outdoor use

CE 1136	
POLYTECHNISCH BEDRIJF BVBA/SPRL – P.T.B.-COMPAKTUNA® INDUSTRIEPARK ZWIJNAARDE 6 9052 GENT – BELGIUM	
13	
810/CPFR/130701 EN 12004+A1 P.T.B.-NORMFLEX	
Cementgebonden tegellijm/wand en muur/binnen en buiten Ciment colle/murs et sols/intérieur et extérieur Cementitious adhesive/floors and walls/internal and external Zementhaltiger Klebmittel/Boden und Wand/Innen und Außen	
Brandklasse/Réaction au feu/Brandverhalten/Reaction to fire:	NPD
Hechtsterkte als/Force d'adhérence/Klebkraft/Bond strength as: - initiele hechting/adherence initiale/Haftzugfestigkeit nach Trockenlagerung/initial tensile adhesion strength (28 days)	≥ 1 N/mm ²
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 ²
- hechting na onderdompeling in water/aprés immersion/ Haftzugfestigkeit nach Wasserlagerung/tensile adhesion strength after water immersion	≥ 1 N/mm ²
- hechting na vorst-dooicyclus/aprés gel-dégel/ Haftzugfestigkeit nach Frost-Tauwechsel-Lagerung/tensile adhesion strength after freeze-thaw cycles	≥ 1 N/mm ²
Vrijstelling gevaarlijke substanties/Emission de substances dangereuses/Freisetzung von gefährlichen Stoffen/Release of dangerous substances	MSDS



Characteristics



P.T.B.-NORMFLEX is a dry composition that by simple addition of water produces a ready-to-use adhesive with an increased flexibility.

1. An extraordinary adhesion exceeding in great measure that of the traditional adhesive cements.
2. An elasticity not found in the traditional adhesive cements. This allows to use P.T.B.-NORMFLEX for demanding applications as well.

With P.T.B.-NORMFLEX it is possible to glue following materials, both indoors and outdoors: faience, ceramic, mosaic, etc., and this on surfaces such as concrete, masonry, cementing work, cellular concrete, cement screed and gypsum.

The glueing on to gypsum blocks and gypsum plaster work is possible after they received a pretreatment with a COMPAKTUNA® (PRO)/water solution (1/4) or with P.T.B.-PRIMER. When natural stone is to be placed, we recommend covering the entire plate with adhesive and avoiding working with dots. Glueing of certain kinds of natural stone (e.g. marble) must be done using P.T.B.-NORMFLEX white.

Floors fitted with floor heating can also be finished with tiles glued with P.T.B.-NORMFLEX (maximum tile size with floor heating is 60 x 60 cm).

We also refer to technical information 237.

P.T.B.-NORMFLEX is an easy-to-use glue that can very easily be spread. Due to its excellent standing power, it is very well appropriate for glueing on to walls. Also 24 hours after installation, the adhesive has sufficiently cured to be able to enter the room and to joint the tiles.

P.T.B.-NORMFLEX Grey and White have been tested on the basis of the standard NBN EN 12.004, and they can be classified as a C2 TE glue.

TECHNICAL CHARACTERISTICS	Corresponds to the requirements according NBN EN 12004
Initial tensile adhesion strenght (C2)	≥ 1
Tensile adhesion strenght after water immersion (C2)	≥ 1
Tensile adhesion strenght after heat ageing + 70°C (C2)	≥ 1
Tensile adhesion strenght after freeze-thaw cycles (C2)	≥ 1
Open time: tensile adhesion strenght after 20 min.	≥ 0,5
Extended open time: tensile adhesion strenght after 30 min. (E)	≥ 0,5
Slip resistance (T)	≤ 0,5 mm

Mixing ratio	Consumption	Packaging
± 6.5 litres of water per bag of 25 kg (approx. 26%)	± 1.4 kg/mm/m ² in powder form	25 kg
Colours	Processing time	Application temperature
Grey & white	± 3h	+ 5°C till +30°C

P.T.B.-NORMFLEX

Directions for use

One always works on a clean, healthy surface that is free of dust and oil. Strongly absorbing surfaces are pretreated with a COMPAKTUNA® (PRO)/water solution (1/4) or with P.T.B.-PRIMER. Plates acting as base must always be firmly fixed prior to beginning the installation of the tiles. P.T.B.-NORMFLEX is prepared with approximately 26% of water, this being approximately 6.5 litres of water to 25 kg of product. Following a careful mixing, let the resulting mortar set for 5 to 15 minutes. Subsequently, 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 (glue comb 4 to 10 mm). Next, press down the tiles in a brief rotating motion. The open time of the applied coating depends on the working conditions and the base. Jointing (P.T.B.-JOINT HY, P.T.B.-JOINT-BREED, JOINT HY PREMIUM or P.T.B.-EPOXY-JOINT) will not be done until the adhesive has sufficient resistance (depending on temperature and air humidity - wait at least 24 hrs).

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 ceiling, 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).
- In certain cases, a primer coating of COMPAKTUNA® (PRO)/water solution (1/4) or of P.T.B.-PRIMER can be necessary.
- In case of non-compatible bases, such as an anhydrite screed, the bases should be pretreated with P.T.B.-PRIMER or a COMPAKTUNA® (PRO)/water solution (1/4).
- In case of non-compatible bases, such as an anhydrite screed, the substrate must be pre-treated after drying the screed (recommended to limit the mass moisture content to 0.3%) with a COMPAKTUNA® (PRO) / water solution (1/3) or with P.T.B.-PRIMER. Then wait 24 hours before starting the adhesive coating.

Packaging

P.T.B.-NORMFLEX is available in grey and white colour in bags of 25 kg. Each 25 kg bag contains an inner polyethylene bag. P.T.B.-NORMFLEX can be kept for 12 months in the original, unopened packaging when stored in a dry place.

