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POLYTECHNISCHE BEDRIJF DIVANISPRIL - P.T.B. «COMPAKTUNA» INDUSTRIEPARK ZWILJAARDE 6 9052 GENT - BELGIUM	
13 083/CPR/130701 EN 12004+A1 FLEXcement® RAPID	
Cementgebonden tegelplijnswand en muurbinnen en buiten/zeer snelle uitharding Cement colleurs et solémiéneur et extérieur/cimentement très rapide Cementitious adhesive/floors and walls/internal and external/fast setting Schnell erhaltendes zementhaltiger Klebemörtel/Boden und Wandflächen und Außen	
Brandklasse/Réaction au feu/Brandverhalten/Reaction to fire:	NFD
Hechtsterkte als Force of adhérence/Klebkraft/Bond strength as: - hechting na 6 uur/adhérence après 6 h/r/haltzugfestigkeit (6 St.)/adhesion strength after 6 hours - initiële hechting/adhérence initiale/Haltzugfestigkeit nach Trockerlagerung/initiale tensile adhesion strength (28 days)	$\geq 0,5 \text{ N/mm}^2$ $\geq 1 \text{ N/mm}^2$
Duurzaamheid/Stabilité d'adhérence/Haltbaarheid/Durability for: - hechting na veroudering onder hoge warmte/opéra action de la chaleur/Haltzugfestigkeit nach Warmtelering/tensile adhesion strength after heat ageing - hechting na onderdompeling in water/aprés immersion/ Haltzugfestigkeit nach Wasserlagerung/tensile adhesion strength after water immersion - hechting na vorst-dooicyclus/get-doged/ Haltzugfestigkeit nach Frost-/Tauwechsel-Lagerung/tensile adhesion strength after freeze-thaw cycles	$\geq 1 \text{ N/mm}^2$ $\geq 1 \text{ N/mm}^2$ $\geq 1 \text{ N/mm}^2$
Vrijstelling gevaarlijke substanties/Emission de substances dangereuses/Freeisetzung von gefährlichen Stoffen/Release of dangerous substances	MSDS



Qualities



+30°

+5°

FLEXcement® RAPID is a dry composition that will give a ready-to-use glueing mortar for tiles with great "flexibility" by the simple addition of water.

FLEXcement® RAPID has the following special properties:

1. An extra-ordinary **adhesion** that is far superior to the ordinary conventional glueing mortars on cement base;
2. An extra-ordinary **elasticity** that is not found in the common conventional ad-hesives on cement base. FLEXcement® RAPID has a higher resistance against shear adhesion strengths. This allows FLEXcement® RAPID to economically replace the paste-glues (for instance, for gluing on woodfibre boards);
3. A **total range of qualities** that can offer solutions in problematic areas. FLEXcement® RAPID offers solutions in the numerous applications of glueing tiles to tiles (only for indoor work)
4. A **rapid set tile adhesive** that is accessible and can be grouted after 3 hours.

TECHNICAL CHARACTERISTICS	Corresponds to the requirements according NBN EN 12004
Initial tensile adhesion strenght after 28 days (C2)	≥ 1
Initial tensile adhesion strenght after 6 hours (F)	$\geq 0,5$
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.	$\geq 0,5$
Extended open time: tensile adhesion strenght after 30 min. (E)	$\geq 0,5$
Slip resistance (T)	$\leq 0,5 \text{ mm}$
Flexibility (S1 according to EN 12002)	$\geq 2,5 \text{ mm}$

Mixing ratio	Consumption	Packaging
$\pm 5,25 \text{ l}$ water per bag of 25 kg ($\pm 21\%$)	$\pm 1,5 \text{ kg/mm}^2$ in powder	5 & 25 kg
Colour	Processing time	Application temperature
Grey & white	$\pm 1 \text{ h}$	+ 5°C. till + 30°C.

Qualities

FLEXcement® RAPID is not only used for traditional adhesive cements and pasteglues, but admits of numerous solutions for which these products do not offer any answers.

With FLEXcement® RAPID, the following materials can be glued, both indoors and outdoors: tiles, ceramics, mosaics, and the like, and this on bases such as concrete, masonry, cementation, cellular concrete, wood-fibre boards, veneer sheeting (the latter two only indoors), and the like.

Even the glueing together of tiles to tiles is possible with FLEXcement® RAPID (only indoors). Floors with floorheating can also be tiled with FLEXcement® RAPID. (maximum tile size for floorheating is 60 x 60 cm).

For installing stone material we recommend to cover the tile completely and not to work with dots. For adherence of certain stone materials (ex. marble) FLEXcement® white has to be used.

Directions for use

The application shall be carried out on a non-frozen, clean, well maintained surface free of dust and oil spots and bits of loose substances. Porous surfaces need to be lightly dampened prior to application with a layering of COMPAKTUNA®(PRO)/water solution (1/4) or with P.T.B.-PRIMER. Plates and sheeting that serve as base need to be attached in a stable position prior to the positioning of the tiles.

FLEXcement® RAPID is mixed with $\pm 21\%$ of water, which is $\pm 5,25$ l of water per 25 kg of product. After careful mixing, leave the mortar thus achieved to settle for 5 to 15 minutes. Then vigorously mix the mortar once again. The mortar is now ready for use.

With a trowel or an adhesive trowel, first apply a thin layer and make certain this layer is firmly fixed to the surface. Immediately apply a second layer that is distributed with an adhesive trowel (notched trowel 4 to 10 mm) in regular ridges. Next, position the tiles firmly in place with a slight twisting action. The available time for the layer to settle depends on the application circumstances and the nature of the surface.

The joining work (with P.T.B.-JOINT HY or P.T.B.-JOINT-BREED) is carried out only after the glue has achieved sufficient resistance (depending on temperature and humidity - wait at least 3 hours).

Surfaces are ready for use after approx. 24 hours.

Remarks

- The back of the tiles and floor need to have a coverage of minimal 80 %. For outdoor applications and high duty surfaces a 100 % coverage is recommended.
- The jointing work is carried out in a way that possible tensions (for instance, as a result of dilatation) can be dealt with by the tiling surface. Clamping against ceilings, floors, columns, and the like needs to be avoided; dilatation joints in the bearing surface need to be picked up in the tiling surface. All these joints need to be sealed off with an elastic jointing kit (P.T.B.-SILICONE SN & NA).
- In some cases, a base coating with COMPAKTUNA® (PRO)/water (1/4) or P.T.B.-PRIMER (BL) may be necessary.
- For non-compatible substrates like anhydrite screeds the substrate need to be treated with COMPAKTUNA® (PRO)/ water-solution (1/4) or with P.T.B.-PRIMER.

Packaging

FLEXcement® RAPID is available in bags of 25 kg, in grey & white. Each bag of 25 kg contains a bag in polyethylene. Sustainability is 6 months in original, sealed packaging and dry preserved.

