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COMPAKTUNA® bv/srl INDUSTRIEPARK ZWIJNAARDE 6 9052 GENT – BELGIUM 13	
083/CPR/130701 EN 12004 + A1: 2012 FLEXcement® RAPID Cementitious adhesive/floors and walls/internal and external/fast setting	
Bond strength as: - Initial tensile adhesion strength (28 days) - Early tensile adhesion strength	$\geq 0.5 \text{ N/mm}^2$ $\geq 1 \text{ N/mm}^2$
Durability for: - Tensile adhesion strength after heat ageing - Tensile adhesion strength after water immersion - Tensile adhesion strength after freeze-thaw cycles	$\geq 1 \text{ N/mm}^2$ $\geq 1 \text{ N/mm}^2$ $\geq 1 \text{ N/mm}^2$



CHARACTERISTICS



+30 °C

+5 °C

FLEXcement® RAPID is a dry composition which, by simply adding water, produces a ready-to-use adhesive with great "flexibility".

FLEXcement® RAPID has as special properties:

1. An exceptional **adhesion** that far exceeds that of traditional adhesive cements.
2. A remarkable **elasticity** that you do not find in traditional adhesive cements. FLEXcement® RAPID has an increased resistance to shear stresses. This allows FLEXcement® RAPID to economically replace paste adhesives (for bonding on e.g. chipboard).
3. A **set of qualities** that provides a solution in difficult cases. FLEXcement® RAPID provides the solution in numerous applications for bonding tiles to tiles (only for interior work).
4. A very fast curing adhesive that allows the tiled area to be walked on and grouted after 3 hours.

FLEXcement® RAPID not only covers the domain of traditional adhesive cements and paste glues, but finds numerous applications where these products can no longer provide solutions. With FLEXcement® RAPID the following materials can be glued both indoors and outdoors: faïence, ceramics, mosaic, etc., on a surface such as concrete, masonry, cement work, cellular concrete, chipboard, veneer panels (the latter 2 only indoors), etc. Even bonding tiles to tiles (indoors) is possible with FLEXcement® RAPID.

FLEXcement® RAPID can be used for bonding 1 x 1 m tiles on underfloor heating (see reports R2EM/EM 18-CC-020 and R2EM/EM 18-CC-006). Certain guidelines and additional precautions must be observed when bonding these large format tiles.

These can be found in our advice "Gluing XL tiles on underfloor heating", which is available on simple request. For the installation of natural stone, we advise you to apply glue to the entire slab and not to work with studs. The preservation of certain natural stones (e.g. marble) must be done with FLEXcement® RAPID white.

Technical characteristics	Meets the requirement according to NBN EN 12004 MPa (N/mm ²)
Initial adhesion after 28 days (C2)	≥ 1
Initial adhesion after 6 hours (F)	$\geq 0,5$
Adhesion after immersion in water (C2)	≥ 1
Adhesion after aging at +70 °C (C2)	≥ 1
Adhesion after freeze-thaw cycles (C2)	≥ 1
Adhesion after open time of 20 minutes	$\geq 0,5$
Adhesion after open time of 30 minutes (E)	$\geq 0,5$
Vertical slip resistance (T)	$\leq 0,5 \text{ mm}$
Flexibility (S1 volgens EN 12002)	$\geq 2,5 \text{ mm}$

Mixing ratio	Consumption	Packaging
±5,25 L water per 25 kg bag (±21 %)	±1,5 kg/mm ² in powder	5 and 25 kg PE
Colour	Processing time	Application temperature
Grey and white	±1 hour	+5 °C to +30 °C

FLEXcement® RAPID

DIRECTIONS FOR USE

Always work on a clean, healthy, dust- and oil-free surface. Highly absorbent surfaces are first coated with a COMPAKTUNA® (PRO)/water solution (1/4) or with PRIMER PO. Slabs serving as a substrate must always be stably fixed before the laying of the tiles commences. FLEXcement® RAPID is mixed with approximately 21% water, i.e. approximately 5.25 L of water to 25 kg of product. After careful mixing, let the resulting mortar rest for 5 minutes. Then stir the mortar again vigorously. The glue is now ready for use. First apply a thin layer to the substrate with a trowel or notched trowel. This layer is pressed firmly. Immediately apply a second layer, which is distributed in regular ridges with a notched trowel (glue comb 4 to 15 mm, according to the dimensions of the tiles). The tiles are then pressed firmly with a small rotating movement. The open time of the applied layer depends on the working conditions and the substrate. The jointing (JOINT HY, JOINT HY PREMIUM or JOINT-BREED SP) is only carried out when the adhesive has achieved sufficient resistance (depending on temperature and humidity - wait at least 3 hours). The room can be used after 24 hours.

SPECIAL APPLICATIONS

- FLEXcement® RAPID white is particularly suitable for bonding natural stone slabs and tiles.
- FLEXcement® RAPID white does not contain any substances that can lead to discolouration when processing porous natural stones such as marble, Jura, limestone or Travertine.
- FLEXcement® RAPID white limits the efflorescence of colored salts but absolute exclusion in natural stone is not possible since discoloration can have many causes. A test is recommended.
- The fast bonding and rapid drying of FLEXcement® RAPID also allows bonding of moisture-sensitive natural stone and composite stones.
- For transparent, thin natural stone slabs, one must apply a complete bonding by also applying a thin uniform layer of adhesive to the back of the tile. Then place the tiles in the fresh adhesive layer.
- Always consult the technical data sheet of the natural stone and the Technical Information (TV228) from BUILDWISE.
- The substrate must be protected against rising damp to prevent the penetration of dissolved salts from the substrate.

REMARKS

- The contact surface between tile and adhesive must be at least 80%. For outdoor applications and heavily loaded surfaces, full bonding is recommended.
- The joint construction is designed in such a way that any tensions (e.g. as a result of dilatation) can be absorbed by the tiled surface. Clamping against ceiling, floor, columns, etc. must be avoided; expansion joints in the support surface must be repeated in the tiled surface. All these joints are sealed with an elastic joint sealant (SILICONE SN & NA).
- In some cases a base coat with COMPAKTUNA® PRO/water solution (1/4) or PRIMER BL may be necessary.
- For incompatible substrates, such as an anhydrite screed, after drying (the mass moisture content must be a maximum of 0.3%) and any pre-treatment (sanding, ask the screed supplier for advice), the substrate must be pre-treated with a COMPAKTUNA® (PRO)/water solution (1/3) or with PRIMER PO. Then wait 24 hours before starting to bond.
- Protect drying tile adhesive from frost, precipitation, strong wind and direct sunlight.
- The works must be protected from cold, driving rain and wind.

PACKAGING

FLEXcement® RAPID is available in grey and white in polyethylene bags of 5 & 25 kg. Shelf life is 12 months in original, closed packaging and stored dry.

