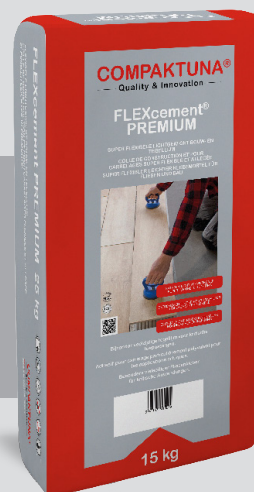


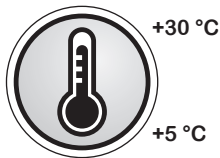
FLEXcement® PREMIUM

Flexible lightweight construction and tile adhesive

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COMPAKTUNA® bv/srl INDUSTRIEPARK ZWIJNAARDE 6 9052 GENT – BELGIUM 1546	
823/CPR/220304 EN 12004:2007+A1:2012 FLEXcement® PREMIUM Cementitious adhesive/floors and walls/internal and external	
Bond strength as: - Initial tensile adhesion strength (28 days)	$\geq 1 \text{ N/mm}^2$
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



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

FLEXcement® PREMIUM has the following special properties:

1. An **extraordinary adhesion** that far exceeds that of traditional adhesive cements.
2. A **remarkable elasticity** that is not found in traditional adhesive cements. FLEXcement® PREMIUM has an increased resistance to shear stresses. This allows FLEXcement® PREMIUM to economically replace paste adhesives.
3. A **set of qualities** that brings a solution in difficult cases. FLEXcement® PREMIUM, for example, provides the solution in numerous applications for bonding tiles on tiles (only for interior work).
4. The incorporation of lightweight fillers makes FLEXcement® PREMIUM very easy to process with very good stability. The tiles can be easily corrected. It is also possible to work with a variable glue thickness. This makes FLEXcement® PREMIUM a very suitable adhesive for bonding large format tiles (XL tiles), also on the wall.
5. A bag of FLEXcement® PREMIUM of 15 kg corresponds in consumption to a bag of classic tile adhesive of 25 kg, which saves weight in transport and for the construction itself.
6. Due to its very high plastic content, FLEXcement® PREMIUM can be classified as S2 according to EN 12002. The combination of extra flexibility, high adhesion strength and the possibility of variable thicknesses means that high resistance to shear stresses can be built into the structure of the tiling. FLEXcement® PREMIUM has a decoupling effect and allows to absorb shear stresses between the tile surface and the substrate. FLEXcement® PREMIUM has a decoupling effect and allows to absorb shear stresses between the tile surface and the substrate. This allows the bonding of XXL tiles, bonding on young cement screeds, on young concrete at least 28 days old, and on very many different substrates. Please contact us for specific technical advice for these applications. Please contact us for specific technical advice for these applications.

FLEXcement® PREMIUM not only covers the domain of traditional adhesive cements and paste adhesives, but also finds numerous applications where these products can no longer provide solutions.

Technical characteristics	Corresponds to the requirements according NBN EN 12004 MPa (N/mm²)
Initial adhesion (C2)	$\geq 1 \text{ MPa (N/mm}^2\text{)}$
Adhesion after immersion in water (C2)	$\geq 1 \text{ MPa (N/mm}^2\text{)}$
Adhesion after aging at +70 °C (C2)	$\geq 1 \text{ MPa (N/mm}^2\text{)}$
Adhesion after aging at +70 °C (C2)	$\geq 1 \text{ MPa (N/mm}^2\text{)}$
Adhesion after open time of 20 minutes	$\geq 0,5 \text{ MPa (N/mm}^2\text{)}$
Adhesion after open time of 30 minutes (E)	$\geq 0,5 \text{ MPa (N/mm}^2\text{)}$
Vertical sliding resistance (T)	$\leq 0,5 \text{ mm}$
Flexibility (S1 according to EN 12002)	$\geq 5 \text{ mm}$

Mixing ratio	Consumption	Packaging
±6,75-7,20 L lighter fluid per bag (±45-48%)	±0,8 kg/mm/m² in powder	15 kg PE
Colours	Processing time	Application temperature
White	±1 hours	+5 °C to +30 °C

FLEXcement® PREMIUM

With FLEXcement® PREMIUM the following materials can be bonded both indoors and outdoors: earthenware, ceramics, mosaics, etc., on substrates such as concrete, masonry, cement screeds, dimensionally stable chipboards and veneers (indoors only), etc. Even the bonding of tiles to tiles (indoors) is possible with FLEXcement® PREMIUM. Floors with underfloor heating can also be tiled with FLEXcement® PREMIUM.

When laying natural stone, we recommend gluing the entire slab with adhesive and not working with studs. Certain stain-sensitive natural stones (e.g. marble) and moisture-sensitive composite tiles must be bonded with FLEXcement® RAPID white.

INSTRUCTIONS FOR USE

Always work on dry, stable, clean, healthy, dust- and oil-free substrates. Highly absorbent substrates must be primed with a COMPAKTUNA® (PRO)/water solution (1/4) or PRIMER PO. Boards used as substrates must always be firmly attached before laying the tiles. FLEXcement® PREMIUM is mixed with approximately 45 to 48% water, i.e. approximately 6.75-7.20 L of water for 15 kg of product. Then the mortar is stirred intensively again. The adhesive is now ready for use. First apply a thin layer to the substrate with a trowel or notched trowel. This layer is pressed on firmly. Immediately afterwards, apply a second layer, dividing it into regular ridges with a notched trowel (notched trowel 4 to 20 mm). The tiles are then pressed firmly with a small rotating movement. The opening time of the applied layer depends on the working conditions and the substrate. Grouting (JOINT HY PREMIUM, JOINT BREED SP) is not carried out until the adhesive has sufficient resistance (depending on temperature and humidity - wait at least 16 hours at 23 °C).

SPECIAL APPLICATIONS

For small format tiles, use a trowel with small teeth. For large-format tiles, it is preferable to use a larger toothing that better absorbs the irregularities of such tiles.

REMARKS

- The contact surface between tile and adhesive must be at least 80%. For outdoor applications and highly stressed surfaces, full bonding is recommended.
- When bonding large-format tiles, the adhesive thickness is important. For example, we recommend an effective minimum adhesive thickness of 4 mm for 80 x 80 cm tiles.
- When gluing extra-large format tiles, when working on young cement screeds and on young concrete, please contact us in case of doubts regarding the site and for specific technical advice.
- The joint construction is designed in such a way that tensions arising (e.g. from dilatation) can be absorbed by the tile surface. Trapping against ceiling, floor, columns, etc.... Expansion joints in the supporting surface must be incorporated in the tile surface. All these joints are sealed with an elastic joint sealant (SILICONE SN & NA). The joint width must be selected according to the size of the tile. The expansion of the tile must also be taken into account if it is dark in colour and receives direct sunlight.
- For incompatible substrates such as an anhydrite screed, after drying of the screed (it is advisable to limit the mass moisture content to 0.3%), the substrate must be pre-treated with a COMPAKTUNA® (PRO)/water solution (1/3) or with PRIMER PO. Then wait 24 hours before bonding. In some cases, it may be advisable to additionally screen this substrate with MEMBRANE LIQ.
- We also refer to technical information 237. Ceramic interior floor tiling (www.buildwise.be)
- Protect drying tile adhesive against frost, precipitation, strong wind and direct sun.
- The works must be protected against cold, driving rain and wind.

PACKAGING

FLEXcement® PREMIUM is available in white color in polyethylene bags of 15 kg. The shelf life is 12 months in the original, closed packaging and stored dry..

