COMPAKTUNA®

FLEXcement® COMFORT

Flexible lightweight construction and tile adhesive

CE 19

COMPAKTUNA® bv/srl
INDUSTRIEPARK ZWIJNAARDE 6
9052 GENT – BELGIUM

1546

834/CPR/190601

EN 12004 + A1:2012

FLEXcement® COMFORT

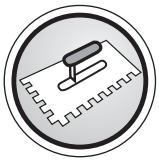
Cementitious adhesive/floors and walls/internal and external

Bond strength as:	
- Initial tensile adhesion strength (28 days)	≥ 1 N/mm²
Durability for:	
- Tensile adhesion strength after heat ageing	≥ 1 N/mm²
- Tensile adhesion strength after water immersion	≥ 1 N/mm²
- Tensile adhesion strength after freeze-thaw cycles	≥ 1 N/mm²

GEV-EMICODE EC 1 PLUS very low emission

CONFORM C2 TE S1 NBN EN 12004

CHARACTERISTICS



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

FLEXcement® COMFORT 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® COMFORT has an increased resistance to shear stresses. This allows FLEXcement® COMFORT to economically replace paste adhesives.
3. A **set of qualities** that brings a solution in difficult cases. FLEXcement® COMFORT, 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® COMFORT 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® COMFORT a very suitable adhesive for bonding large format tiles (XL tiles), also on the wall. Under the condition of correct installation, tiles with a tile format of 1 x 1 m can be glued with FLEXcement® COMFORT.
5. A bag of FLEXcement® COMFORT 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.

FLEXcement® COMFORT 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.

With FLEXcement® COMFORT, the following materials can be bonded both indoors and outdoors: faience, ceramics, mosaic, etc..., and this on a substrate such as concrete, masonry, cement work, aerated concrete, form-retaining chipboards (inside), veneer boards (inside), etc. Even bonding tiles on tiles (inside) is possible with FLEXcement® COMFORT.

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

Mixing ratio	Consumption	Packaging
±8,1 L of mixing liquid per bag (±54 %) (levelling mortar, thick-bed adhesive and thinbed adhesive) ±8,7 L of lighter fluid per bag (±58%) (flowbed adhesive)	±0,8 kg/mm/m² in powder	15 kg PE
Colours	**Processing time**	**Application temperature**
Grey	±2 hours	+5 °C to +30 °C

FLEXcement® COMFORT

FLEXcement® COMFORT can be used for bonding tiles with a format of 1 x 1 m on underfloor heating (external reports on request). Certain guidelines and additional precautions must be observed when gluing these large format tiles. These can be found in our advice “Gluing XL tiles on underfloor heating”, which is available on request.

Before installing natural stone, we advise you to coat the entire panel with glue and not to work with studs. Bonding of certain stain-sensitive natural stones (eg marble) and moisture-sensitive composite tiles must be done with FLEXcement® RAPID white. Depending on the amount of mixing water, FLEXcement® COMFORT can be used as a leveling mortar, thick-bed adhesive and as a thin-bed adhesive (±8.1 L water/bag) and as a fluid-bed adhesive (±8.7 L water/bag).

INSTRUCTIONS FOR USE

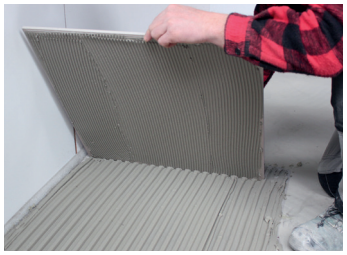
Always work on a stable, clean, healthy, dust- and oil-free surface. Highly absorbent substrates are primed beforehand with a COMPAKTUNA® (PRO)/water solution (1/4) or with PRIMER PO. Plates serving as a substrate must always be firmly attached before the installation of the tiles begins. FLEXcement® COMFORT is prepared with approximately 54% water i.e. approximately 8.10 L of water 15 kg of product (or 58% water for application as a fluid bed adhesive). The powder is added to the water while mixing. All this happens in a narrow tub. It is recommended to completely submerge the mixer in the powder. After careful mixing, the thus obtained mortar is allowed to rest for 5 minutes. The mortar is then intensively stirred again. The glue is now ready to use. A thin layer should first be applied to the substrate with a trowel or notched trowel. This layer is pressed firmly. Immediately afterwards, a second layer is applied, which is divided into regular grooves with a notched trowel (trowel 4 to 20 mm). The tiles are then pressed firmly with a small twisting movement. The open time of the applied layer depends on the working conditions and the substrate. Jointing (JOINT HY, JOINT HY PREMIUM, JOINT-BREED SP, EPOXY-JOINT RG) may only be carried out when the adhesive has sufficient resistance (depending on temperature and humidity - wait at least 24 hours).

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%. Full bonding is recommended for outdoor applications and highly stressed surfaces.
- The adhesive thickness is important when gluing large format tiles. For example, we recommend an effective minimum adhesive thickness of 4 mm for tiles with a size of 80 x 80 cm.
- The joint construction is designed in such a way that occurring tensions (e.g. as a result of dilatation) can be absorbed by the tile surface. Impingement against the ceiling, floor, columns, etc. must be avoided; expansion joints in the bearing surface must be repeated in the tile surface. All these joints are sealed with an elastic joint sealant (SILICONE SN & NA). The joint width should be selected according to the size of the tile. The expansion of the tile should also be taken into account if it is dark in color and receives direct sunlight.
- With non-compatible substrates such as anhydrite screed, after the screed has dried (recommended to limit the mass moisture content completely to 0.3%), the substrate must be pre-treated with a COMPAKTUNA® (PRO)/water solution (1/3) or with PRIMER PO. One then waits 24 hours before starting bonding. In some cases it may be appropriate to additionally shield this surface 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® COMFORT is available in gray color in polyethylene bags of 15 kg. The shelf life is 12 months in the original, closed packaging and stored dry.

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As the applications of our products are diverse, no single application guideline can be laid down. All product data refl ect the state of knowledge of our products at the time of publication. Therefore all suggestions and recommendations concerning the use of our products are merely illustrative. Apply the product on a small and insignifi cant spot before starting to use our products to be sure the desired result is obtained. Always ask for the technical sheet of our products. Visit the website www.compaktuna.be. Consult our “technical department” which can be reached for free on the green number 0800/92279. The Dutch text shall be exclusively binding. Version 10/02/2014. **COMPAKTUNA BV is EN ISO 9001 certified.**

COMPAKTUNA®
Quality & Innovation

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