GEL ULTRAFLEX VKW 129

Super elastic tile adhesive



GEL ULTRAFLEX VKW 129 is a highly flexible adhesive for tiles, suitable for the most demanding bonding and the application of tiles on existing tiling, even on vibrating surfaces. It consists of cement, quartz sand and special improvement additives. It is resistant to substrate movement and has extended open time (up to 30 minutes), thus offering increased working capacity to application teams. It has very strong adhesion to all common substrates and exhibits high resistance to weather conditions (rain-heat-frost). It is classified as C2TE S2 adhesive, according to European Standards EN 12004 and EN 12002, suitable for both indoor and outdoor use.

Advantages:

- Extremely high elasticity.
- Strong adhesion to demanding substrates and vertical surfaces.
- Suitable for underfloor heating and swimming pools.
- Resistant to humidity and frost.
- High resistance – fast application.
- Suitable for bonding all kinds of tiles and natural stone.
- CE certified – in conformity with European Standards EN 12004 and EN 12002.

S2 C2TE

ISO 14001 Certified Environmental & Management System

Certified ISO 9001 Quality System

CE

FIBER FORCE SYSTEM SUPER FLEXIBLE EXTRA STRONG

EPD INTERNATIONAL EPD SYSTEM

TECHNICAL CHARACTERISTICS

Packaging:

• 25kg paper bags

Application:

For interior and exterior use. For both absorbent and non-absorbent tiles, of all size, types on substrates subject to vibrations and shrinkage/expansion

Color:

Grey, white.

Storage:

Stored in wooden pallets at temperatures higher than +0°C for 12 months from production date, protected from moisture, frost and intense radiation.

Consumption:

~ 2,5 – 4,0 kg/m^2.

FIELDS OF APPLICATION

GEL ULTRAFLEX VKW 129 is especially recommended for the adhesion of both absorbent and non-absorbent tiles, small or large ceramic tiles of all types, thin stone tiles, marble, natural or artificial granite tiles, cotto tiles, klinker tiles, gres tiles, porcellanato, porcellanato smaltato, decorative elements and glass mosaic tiles in exterior buildings and on sub-layers requiring high adhesion strength, elasticity and resistance to climatic conditions. Suitable for bonding all kinds of tiles and natural stone. Recommended for bonding tiles on surfaces subject to vibrations and extreme shrinkage/ expansions, such as:

- Gypsum boards
- Underfloor heating
- Flat roofs
- Balconies

On wooden surfaces, such as:

- MDF
- Plywood
- Chip-board
- Lofts
- Wooden stairs

Ideal for bonding mosaic tiles on:

- Swimming pools
- WC
- Baths
- Changing rooms
- Greenboard drywalls etc.

Suitable for both indoor and outdoor use. It is also recommended for bonding big dimension tiles and new tiles on old ones.

SUBSTRATE PREPARATION

The substrate should be dry, steady and free from dust, impurities, oil, grease, loose and decayed parts. In case the substrate has defects, hollows, etc. they should be repaired before the application of the product with the help of the suitable THRAKON repair materials. If there are previous paint layers, they should also be removed. Wooden painted or varnished surfaces should be srubbed before the application of the adhesive. Porous or absorbent substrates should be primed with GLX 290 acrylic primer before application. Non-absorbent substrates should be primed with GLX 190 primer or acrylic admixture VLX 186.

APPLICATION

In a clean container add 8 liters of clean water and gradually empty the content of a 25 kg bag of GEL ULTRAFLEX VKW 129. Mix with an electric stirrer for 3 minutes until the mixture becomes homogenous. Let the mixture rest for 5 minutes and stir again for a while. The mixture is ready to use for at least 1.5-2 hours. After the preparation of the mixture, no extra water should be added to improve mortar workability. This could lead to reduced strengths and increased shrinkage. Spread the adhesive on the surface and then comb the adhesive layer using a special toothed spatula. Within 30 min from the adhesive layering, place the tiles at their location, pressuring firmly in order to ensure full contact. The installation of tiles on the wall may be performed starting from the upper part with the entire tile and without any slippage. Any excess adhesive should be removed from the joints. Expansion joints should be applied on the surface every 25 m^2. Connections between floors and walls should be made with the suitable silicone mastic sealants. Throughout application and during the next 24 hours, the temperature of the environment and the substrate should be between 5^{o}C and 35^{o}C. When the adhesive is still fresh, it can be cleaned with water. When it hardens, it can only be removed with mechanical means. Access is allowed after 24 hours. Floor grouting can be carried out after 24 hours and wall grouting after 12 hours.

GROUTING

Grouting and walkability is performed after at least 24 hours. For grouting use the cement-based grouts of THRAKON FMF 150 ULTRA GROUTECH and FMF 160 LUX GROUTECH or, if re-quired, the epoxy grout FMF 155 EPOXY GROUTECH.

CONSUMPTION

The consumption of GEL ULTRAFLEX VKW 129 is approximately 2.5 – 4.0 kg/m^2 depending on the type of tiles, tools and application method.

PRECAUTIONS

GEL ULTRAFLEX VKW 129 contains cement and reacts with water for the production of alkaline solution. Therefore, the eyes and skin should be protected. In case of contact, rinse with plenty of water. In case of contact with the eyes, immediately seek medical advice. Read the information on the label and the product's Technical Datasheet before use. Wear appropriate protective clothes and gloves. The MSDS of the product is available to professionals upon request.

Technical characteristics	Units	Standard	Value
Form			Dry powder
Color			White/grey
Application thickness	mm		10
Resistance to temperature	^{o}C		-30 to +90
Maximum grain size	mm		0.5
Working time	h	EN 1015-9	≥ 2
Correction time	min	EN 1015-9	≥ 30
Open time (30min)	N/mm^2	EN 1346	≥ 0.5
Initial tensile adhesion strength	N/mm^2	EN 1348	≥ 1
Tensile adhesion strength after water immersion	N/mm^2	EN 1348	≥ 1
Tensile adhesion strength after heat ageing	N/mm^2	EN 1348	≥ 1
Tensile adhesion strength after freeze-thaw cycles	N/mm^2	EN 1348	≥ 1
Lateral deformation S	mm	EN 12002	> 5
Slip	mm	EN 1308	≤ 0.5
Walking	h		24
Strength development	days		14
Wall grouting	h		12
Floor grouting	h		24
Consumption	kg/m^2		2.5 – 4.0

*Note: The measurements were taken in laboratory environment under normal temperature and relative humidity conditions (+23^{o}C, 50%). It is possible for them to vary depending on the conditions prevailing at the worksite (temperature, humidity, absorbability of the substrate).

The technical information and instructions contained in the present brochure and referring to the application and end use of Thrakon products are based on the up to now know-how and experience of the Company with regards to the products and are provided in good faith as long as such products are stored, used and applied as per Thrakon recommendations. Due to the inability, on our part, to directly inspect the conditions prevailing at the worksite as well as the application procedures of the product, the Company does not provide any guarantee with regards to the adequacy of its products for specific purpose while the Company shall not bear any legal responsibility based on the information stated in the present brochure or any other written, oral, or otherwise provided recommendations and instructions. The users of the products are advised to perform a limited surface testing of the products adequacy for the eventual application and use intentions. Thrakon reserves the right to modify the features of its products without prior notification. All orders shall be approved only following acceptance of the above and under the eventual Commercial Policy terms of the Company. The issuance of the present brochure voids any prior version.
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