GEL SUPERFLEX VKW 128

Superior performance, ULTRA flexible, polymer-modified adhesive for all tile types



GEL SUPERFLEX VKW 128 is a top quality ultra elastic adhesive for absorbent and non-absorbent tiles, of high elasticity modified with polymer additives and based on cement for usage on both horizontal and vertical surfaces. It consists of cement, quartz sand, lime fillers and improvement additives. It presents very strong adhesion on all common substrates and has high resistance against weather conditions (rain – heat-wave - frost). Moreover, it avails extended open time (up to 30 minutes) increasing thus the productivity of crews. It is classified as an adhesive type C2TE according to EN 12004 and S1 as per EN 12002 for interior and exterior applications. GEL SUPERFLEX VKW 128 has received an Environmental Product Declaration (EPD) following an assessment of its life-cycle environmental impacts.

Advantages:

- Produced with quartz sand.
- High elasticity – class S1 according to European standard EN 12002.
- Strong adhesion on demanding substrates.
- Suitable for underfloor heating and pools.
- Suitable for in wooden and metallic surfaces.
- Strong adhesion on vertical surfaces.
- Resistance to weather conditions.
- Excellent workability.
- High tolerance – Fast application.
- Resistance to humidity and frost.
- CE certified - as per the European standard EN12004

TECHNICAL CHARACTERISTICS

Packaging:

Paper bags

• 25kg

Application:

For interior and exterior use. For both absorbent and non-absorbent tiles, of all size, types.

Color:

Grey, white.

Storage:

Store in sealed bags in a dry environment at temperatures above 0° C for 12 months from the production date.

Consumption:

~ 2,0 – 4,0 kg/m^2.

FIELDS OF APPLICATION

GEL SUPERFLEX VKW 128 particularly recommended for the adhesion of both absorbent and non-absorbent tiles on external building facades, as well as on sub-layers requiring high adhesion tolerances, elasticity and resistance to climatic variations. Its thixotopic qualities allow the crew to commence tile adhesion from the upper side towards the lower one. It is suitable for the adhesion of:

- Small or large ceramic tiles of all types.
- Thin marble rock tiles.
- Natural or artificial granite tiles.
- Cotto tiles.
- Klinker tiles.
- Gres tiles.
- Porcellanato, porcellanato smaltato.
- Glass inlays.
- Decorative elements and inlays.
- Glass blocks.

On common substrates such as:

- Concrete.
- Light concrete.
- Porous concrete (YTONG).
- Self-leveling floors.
- Cement screeds.
- Renders
- Flat walls with filled joints.
- Mosaics.

On difficult substrates subjected to thermal dilation and heavy traffic as well as in areas with constant moisture such as:

- Underfloor heating.
- Previously laid tiles.
- Pools.
- Bathrooms.
- Showers.
- Car showrooms.
- Malls.
- Utility areas.
- Exterior tile layering.
- Tanks.
- Porches.
- Roof tops
- Plaster boards following priming with acrylic primer GLX 292 FLEX PRIM.
- Wooden surfaces.
- Metallic surfaces.

SUBSTRATE PREPARATION

The tile laying substrate must be flat, free from brittle and foreign bodies such as plaster residue, paint, oils, etc. It must be stable and free from shrinkage and distortion forces and must not be subject to vibrations.

APPLICATION

In a clean container add 7.5 – 7.75 liters of clean water and gradually add the content of a 25 Kg bag of GEL SUPERFLEX VKW 128, mixing continuously with an electric mixer in order to acquire a homogenous slurry mass.
Let the resulting mixture mature for 5 minutes and mix again for a while. The mixture is ready to be used within the next 4 hours. Following the preparation of the mixture do not add more water in order to correct the workability of the slurry. This would lead to the reduction of its tolerances and the increase of its shrinkage.
Spread the adhesive on the surface and then comb the adhesive layer using a special toothed spatula.
Within 30 min since 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. The excess adhesive must be cleaned off the joints prior to its drying.
On surfaces larger than 25m^2 it is necessary to install expansion joints. At the areas of contact of floors with walls it is recommended to use adequate silica-containing pastes. During application and for the next 24 hours the environmental and substrate temperature must be between +5oC and +35oC. The adhesive is cleaned with water while still wet. When it hardens it is removed mechanically.

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 SUPERFLEX VKW 128 is approximately 2.0 – 4.0 kg/m^2. It depends on the tiles type.

Tile size	Spatula (mm)	Consumption (kg/m^2)
Small	6	~ 2.4
Medium	8	~ 3.3
Large	10	~ 4.0

MODIFICATION

If during mixture preparation there is addition of 1-2 kg/sack of 25Kg, of VLX 186 emulsion and the necessary water quantity, there is enhancement of the product characteristics which shall respond to class S2 of EN 12002. Following modification, the adhesive is adequate for the adhesion of tiles on non-absorbent sub-layers and open areas subjected to intense temperature variations, vibrations and contractions – dilations.

NOT RECOMMENDED

It is not recommended for usage in:

- Substrate made of plaster without prior priming.
- Floors subject to particularly intense distortion and vibrations.

In these cases, there should be usage of special THRAKON adhesive types.

PRECAUTIONS

GEL SUPERFLEX VKW 128 contains cement that reacts with water producing an alkaline solution. For this reason, protect your eyes and skin. In case of contact wash with plenty of water. In case of contact with the eyes seek immediately medical advice. Read the information contained on the label and the Technical Sheet of the product before use. Use adequate protective clothing and gloves. The Safety Sheet of the product is availed to professionals upon request.

Technical characteristics	Units	Standard	Value
Form			Dry powder
Color			White/grey
Application thickness	mm		10
Resistance to temperature	°C		-30 to +90
Maximum grain size	mm		0.5
Working time	h		5
Correction time	min		≥ 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	2.5 ≤ S ≤ 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 – 4
Water demand properties	ml water / 100g of dry mortar		30 - 31

*Note: The measurements were taken in laboratory environment under normal temperature and relative humidity conditions (+230C, 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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