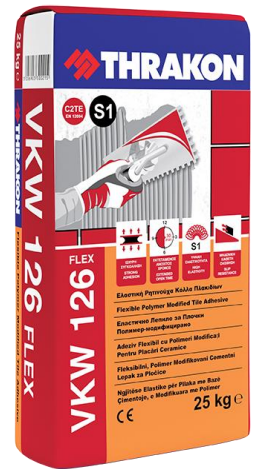


FLEX VKW 126

High-performance, flexible, polymer-modified adhesive for all tile types

VKW 126 is a high-quality elastic adhesive for absorbent and non-absorbent tiles based on cement and modified with polymer additives for usage on both horizontal and vertical surfaces. It consists of cement, quartz sand, lime fillers and improvement additives. VKW 126 presents resistance against slippage, very strong adhesion on all common substrates and high resistance against weather conditions (rain – heat-wave - frost). Moreover, it avails extended open time (up to 30 minutes) thus increasing the productivity of crews. It is classified as an adhesive type C2TE according to EN 12004 and as S1 according to EN 12002 for interior and exterior applications. VKW 126 FLEX has received an Environmental Product Declaration (EPD) following an assessment of its life-cycle environmental impacts.



Advantages:

- Produced with quartz sand
- Resistance against elastic deformation
- Strong adhesion on demanding sub-layers
- Strong adhesion on vertical surfaces
- Adequate for the adhesion of non-absorbent tiles
- Resistance to weather conditions
- Excellent workability
- High tolerance – Fast application
- Resistance to humidity and frost
- CE certified- as per the European standard EN 12004



CE

EPD
INTERNATIONAL EPD SYSTEM

TECHNICAL CHARACTERISTICS

Packaging:



Paper bags
• 5kg
• 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/m².

FIELDS OF APPLICATION

Particularly recommended for the adhesion of both absorbent and non-absorbent tiles (i.e. granites), on sub-layers requiring high adhesion tolerances, elasticity and resistance to climatic conditions. Its thixotropic qualities allow the crew to commence tile adhesion from the upper side towards the lower one. It is adequate for the adhesion of:

- small or large ceramic tiles of all type
- granites
- natural and artificial rock
- large slabs
- thin marbles
- decorative mosaic tiles

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:

- heated floors
- baths
- showers
- car showrooms
- malls
- utility areas
- exterior tile layering
- porches
- roof tops
- plaster boards following priming with primer GLX 292 FLEX PRIM and GLX 298 PREMIUM.

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. The absorbent sub-layers are primed used GLX 290 primer before application

APPLICATION

In a clean container add 8.25-8.75 liters of clean water and gradually empty the content of a 25 Kg sack of product FLEX VKW 126, mixing continuously with an electric mixer in order to acquire a uniform slurry mass. Let the resulting mixture age for 5 minutes and mix again. 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 25m² 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 sub-layer temperature must be between +5°C and +35°C. 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 required, the epoxy grout FMF 155 EPOXY GROUTECH.

CONSUMPTION

The consumption of FLEX VKW 126 is approximately 2.0 – 4.0 kg/m². It depends on the tiles type.

Tile size	Spatula (mm)	Consumption (kg/m ²)
Small	6	~ 2.1
Medium	8	~ 3.0
Large	10	~ 4.0

MODIFICATION

Addition of 1-2 kg/25bag of VLX 186 provides 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 – expansions

NOT RECOMMENDED

It is not recommended for usage in:

- Substrate made of plaster without prior priming.
- Glass, plastic
- Floors subject to distortions and vibration

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

PRECAUTIONS

VKW 126 FLEX 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 available 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	EN 1015-9	5
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	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		33 - 35

*Note: The measurements were taken in laboratory environment under normal temperature and relative humidity conditions (+23°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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