

# VKW 118

## POLYMER MODIFIED TILE ADHESIVE FOR NON ABSORBENT TILES

**C2TE**

ACCORDING TO  
EN 12004

### DESCRIPTION

**VKW 117** is a white, flexible, polymer modified, cement based, thin layer adhesive for bonding absorbent and non-absorbent tiles on both horizontal and vertical surfaces. It consists of cement, quartz sand, limestone fillers and special additives. It exhibits very strong adhesion on all common substrates

and high resistance against weather conditions (rain – heat - frost). Moreover, it has extended open time (up to 30 minutes) thus increasing the productivity of the application teams. It is classified as C2TE type according to EN 12004 and as S1 according to EN 12002 for interior and exterior applications.

### FIELDS OF APPLICATION

**VKW 117** is suitable for applying small and large dimension tiles on walls and floors in both interior and exterior areas. It is particularly recommended for non-absorbent tiles subjected to intense stresses. 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 tile
- glass mosaic tiles
- porcelain tiles
- decorative elements and inlays
- glass blocks

*On common substrates such as:*

- concrete
- light concrete
- porous concrete (YTONG)
- self-levelling floors
  
- cement screeds
- renders
- flat walls with filled joints
- mosaics

### ADVANTAGES - CHARACTERISTICS

- Produced with quartz sand.
- Strong adhesion on vertical surfaces.
- Adequate for the adhesion of non absorbent tiles.
- Strong adhesion on demanding substrates.
- Suitable fo wooden and metal substrates.
  
- Excellent workability.
- High durability – Fast application.
- Resistance to humidity and frost.
- CE certified- according to the european standard EN 12004.



## SUBSTRATE PREPARATION

The substrate must be flat, free from brittle and foreign bodies such as for example plaster residue, paint, oils, etc. It must be stable and free from shrinkage

and distortion forces and furthermore it should not be subject to vibrations. The absorbent sub-layers are primed using GLX 290 primer before application.

## APPLICATION

In a clean container add 7.0-7.5lt of clean water and gradually empty the content of a 25 Kg sack of product **VKW 118**, 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 5 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 spreading, 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<sup>2</sup> 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<sup>0</sup>C and +35<sup>0</sup>C. The adhesive is cleaned with water while still wet. When it hardens it is removed mechanically.

## GROUTING

Grouting and walking is allowed after 24 hours. For grouting you can choose between **THRAKON**

**FMF 150, FMF 160 LUX** tile grouts (cement based) or, if necessary, **FMF 155** epoxy tile grout.

## CONSUMPTION

The consumption of **VKW 118** is approximately 2,0-4,0kg/m<sup>2</sup>. It depends on the tiles type.

Tiles size Size	Trowel (mm)	Consumption kg/m <sup>2</sup>
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 S1 of

EN 12002. Following modification the adhesive is adequate for the adhesion of tiles on non-absorbent substrates and open areas subjected to intense temperature variations, vibrations and contractions – dilations.

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.

# VKW 118

## HIGHLY FLEXIBLE, POLYMER MODIFIED TILE ADHESIVE

# C2TE S1

ACCORDING TO  
EN 12004 &  
EN 12002

### PACKAGING - STORAGE

The product is packed in plastic bags of 5Kg and paper bags incorporating a valve of 25Kg. It is stored on wooden pallets,

in dry environment and temperatures greater than 0°C for 12 months since the production date.

### NOT RECOMMENDED

*It is not recommended for application on:*

- gypsum substrates without special priming
- glass, plastic, steel, wood
- old tiles

- swimming pools and tanks.
- floors submitted to distortions and vibration,

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

### PRECAUTIONS

**VKW 118** 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 Safety Data Sheet of the product before use. Use adequate protective clothing and gloves. The Safety Sheet of the product is available to professionals upon request.

#### TYPE C2TE ACCORDING TO THE EUROPEAN STANDARD EN 12004

TECHNICAL CHARACTERISTICS	UNITS	STANDARD	VALUE
Form			Dry powder
Color			White
Applicatio thickness	(mm)		10
Resistance to temperature	(°C)		-30 to +90
Maximum to grain size	(mm)		0,5
Working time	(h)	EN 1015-9	5
Correction time	(min)	EN 1015-9	≥30
Open time (30min)	(N/mm <sup>2</sup> )	EN 1346	≥ 0,5
Initial tensile adhesion strength	(N/mm <sup>2</sup> )	EN 1348	≥1
Tensile adhesion strength after water immersion	(N/mm <sup>2</sup> )	EN 1348	≥1
Tensile adhesion strength after heat ageing	(N/mm <sup>2</sup> )	EN 1348	≥1
Tensile adhesion strength after freeze – thaw cycles	(N/mm <sup>2</sup> )	EN 1348	≥1
Slip	(mm)	EN 1308	≤0,5
Walking after	(h)		24
Wall grouting	(h)		12
Floor grouting	(h)		24
Consumption	(kg/m <sup>2</sup> )		2-4
Water demand properties	(ml water/100g of dry mortar)		28-30

Note: The measurements were taken in laboratory environment under a temperature of +23°C, Relative humidity 50% and without ventilation. It is possible for them to vary depending on the conditions prevailing at the worksite such as temperature, humidity, ventilation, sub-layer and frame absorbance