

VKW 129 SUPER ELASTIC TILE ADHESIVE

C2TE S2

ACCORDING TO
EN 12004
EN 12002

DESCRIPTION

VKW 129 is high 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 – fever 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.

APPLICATION FIELDS

It is specially 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 tiles.

ADVANTAGES – CHARACTERISTICS

- 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 & EN 12002.

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.

The wooden painted or varnished surfaces should be scrubbed before the application of the adhesive. Porous or absorbent substrates should be primed with **GLX 290** acrylic primer before application. Non-absorbent substrates **GLX 190** primer or acrylic admixture **VLX 186**

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APPLICATION

In a clean container add 6,75liters of clean water and gradually empty the content of a 25kg bag of product **VKW 129**. Mix with an electric stirrer for 3 minutes until the mixture becomes homogeneous. Let the mixture rest for 5 minutes and stir again for a while. The mixture is ready for use for at least the next 1.5-2 hour. After the manufacture of the mixture, no extra water should be added in order to work the mortar more easily. 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 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. Any excess adhesive should be removed from the joints. Expansion joints should be applied on the surface every 25 m². 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 and +35°C. When the adhesive is still fresh, it can be cleaned with water. When it hardens, it can be removed only 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 walking are allowed after 24 hours. **FMF 150** and **FMF 160 LUX** grouts (cement-based) or, if

necessary, **FMF 155** epoxy grouts are used for grouting.

CONSUMPTION

The consumption of **VKW 129** is approximately 2.5-4.0 kg/m², depending on the type of tiles, tools and application method.

PACKAGING – STORAGE

The product is packed in 25kg paper bags and 5kg plastic bags. It is available in white and grey. In sealed packaging at

least 12 months from date of production, in places protected from moisture, frost and intense radiation.

PRECAUTIONS

VKW 129 contains cement and reacts with water for the production of alkaline solution. Therefore, eyes and skin should be protected. In case of contact, wash with plenty of water. In case of eye contact, immediately seek for medical

advice. Read the information on the label and the Product Technical Sheet before use. Wear the appropriate protective clothes and gloves. The MSDS of the product is available upon request to professionals.

TYPE C2TE S2 OF THE EUROPEAN STANDARD EN 12004 and EN 12002

TECHNICAL CHARACTERISTICS	UNITS	STANDARD	VALUE
Form			dry powder
Colour			White, grey
Application thickness	(mm)		10
Temperature resistance	(° C)		-30 up 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	≥1.0
Tensile adhesion strength after water immersion	(N/mm ²)	EN 1348	≥1.0
Tensile adhesion strength after heat ageing	(N/mm ²)	EN 1348	≥1.0
Tensile adhesion strength after freeze – thaw cycles	(N/mm ²)	EN 1348	≥1.0
Transverse deformation S	(mm)	EN 12002	>5
Substrate movement	(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 a temperature of +23°C, Relative Humidity 50 % and without ventilation. They may vary depending on the conditions prevailing at the worksite, such as temperature, humidity, ventilation and absorbability of the substrate.

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