

VKW 145 STRONG EPOXY TILE ADHESIVE

R2T

ΣΥΜΦΩΝΑ ΜΕ
EN 12004

DESCRIPTION

The product **VKW 145** is a two component, industrial type, powerful epoxy adhesive-putty. It exhibits high resistance in humidity, solvents and temperature variations. It is ideal for fast bonding applications of

similar and dissimilar construction and industrial material. It does not shrink. It is specially recommended for tiles and marbles. It is classified as R2TE type adhesive according to EN 12004 for indoor and outdoor use.

FIELD OF APPLICATION

- Suitable for application in swimming pools, chemical industries, laboratories, production and food preparation areas, refrigeration and freezing areas, slaughterhouses, hospitals, laundries, etc.
- Ideal for bonding marble, granite, ceramic tiles, metal, concrete, stone, ceramics, wood, etc.
- Suitable for bonding ceramic tiles on metal surfaces, asbestos, MDF, glass, etc
- It is applied for bonding on walls and floors absorbent and non-absorbent ceramic or granite tiles, small and large dimension tiles, natural and artificial stone, glass mosaic tiles, gres porcelanato, cotto and Klinker.
- Filling of racks and small holes on concrete.
- Bonding of new concrete to old.
- Anchoring reinforcement beams into concrete.
- Fixing metallic mantles on pillars (repairs caused by earthquakes).

ADVANTAGES

- Extremely high adhesion properties
- Bonds dissimilar materials
- Wide variety of applications
- High temperature resistance
- Excellent resistance to most chemicals
- Paintable

MIXING

VKW 145 offered in two components A and B at a predetermined ratio which are mixed shortly before use. Empty our entire contents of B (hardener) in vessel A (resin) and mix thoroughly with a low speed drill (300 rpm./min) for 5 minutes until homogeneous paste.

At low temperature the material loses its good workability resulting in mixing and application is difficult. At high temperature accelerates the setting time of the material.

SUBSTRATE PREPARATION

Joints must be dry and free of dust, dirt, oil and fatty agents, free from loose material and loose particles. Any

old layers of paints should also be removed. Any tile adhesive residues must be removed.

APPLICATION

Using a spatula, mix equal quantities from A (resin) and B (hardener) until a uniform paste is formed. The two components should be mixed for about 5 minutes. It is important to stir the mixture thoroughly near the sides and bottom of the container in order to achieve uniform

dispersion of the hardener. Final adhesion strength is achieved after 24 hours. A test should be carried out before application in order to ensure the compatibility of the materials to be bonded.



CONSUMPTION

1,5-5kg/m² for tile bonding depending on the smoothness of the surface.

PACKAGING

- A component – metal container 4,66 kg
- B component – metal container 0,34 kg

**Mixture(A + B) – 53 kg*

STORAGE

Products should be stored in a dry and cool place at a temperature of 5⁰-35⁰C, away from sources of ignition. Protect from humidity and direct sunlight.

TOOLS

For preparation of the product it is recommended the use of an electric low speed mixer (300 r/min) with appropriate blades. It is applied by rubber or flexible metal trowel and it is cleaned with sponge.

CLEANING TOOLS AND MACHINES

Clean well immediately after application using a solution of lukewarm water or add in the water about 10% spirit for easier cleaning. After hardeningg the product is removed only by mechanical means or harsh chemicals.

NOT RECOMMENDED

Not recommended:

- At temperatures bellow 10⁰C and above 35⁰C.
- When the relative humidity is over 80%.
- During rain.
- During water leaks.

PRECAUTIONS

For safety precautions and safety of use of the product please refer to the Safety Data Sheet for the product.

The Safety Sheet of the product is availed to professionals upon request

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TECHNICAL CHARACTERISTICS	UNITS	STANDARD	VALUE
Base			Epoxy resin
Form			Paste
Color			Off white
Mixing proportion			10:0,73
Hardening temperature			At least 10 °C
Initial shear adhesion strength (7 days)	(N/mm ²)	EN 12003	≥ 12
Shear adhesion strength after water immersion (21 days)	(N/mm ²)	EN 12003	≥ 10
Shear adhesion strength after thermal shock	(N/mm ²)	EN 12003	≥ 10
Slip	(mm)	EN 1308	≤0,5
Walking after (23 ⁰ C)	(h)		14-16
Partial loading after (23 ⁰ C)	(h)		48
Full loading after (23 ⁰ C)	(d)		7
Pot life (23 ⁰ C)	(min)		45
Cleaning in (23 ⁰ C)	(min)		45
Consumption	(Kg/ m ²)		1,5-5

Note: The measurements were taken in laboratory environment under a temperature of +23⁰C, 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, absorbability of the substrate.