

## Description of Product

SUFFIX EP VK 30 has 2 components in liquid form. Suffix EP VK 30 epoxy system is a two-component, low-viscosity product used with the vacuum infusion method to fill and fuse porosity, hairline cracks, large cracks and holes in marble, to strengthen block marbles in the lamination stages and to produce various spare parts with fiber support.

## Areas of Use

It is used in the production of marble blocks, marble slabs, granite, natural stones and various composite material parts.

## Advantages

It has low viscosity. It provides homogeneity to the processed stone. It has excellent chemical resistance. It has good adhesion properties.

## Physical Properties

Quality	Method	Properties	
		A Component	B Component
Appearance	-	Transparent, Liquid	Transparent, Liquid
Viscosity (Brookfield, mPas)	TS 5833 EN ISO 3219	500 - 550	50 - 60
Density (gr/ml, 25°C)	ASTM D1475 / DIN 53217 / ISO 2811	Mixture: 200 - 250	
Mixing Ratio	-	100	30
Glass Transition Temperature, Tg (°C)	EN ISO 11357-2	55	

\* Optimum mechanical properties will be reached after 7 days at 23°C.

## Application Information

Quality	Value	Standard
Pot Life (100 g A+B) (minutes)	60 - 90	-
Touch Dry (hours)	4 - 6	-
Full Curing (hours)	18 - 22	-

## Mechanical Properties

Quality	Value	Standard
Tensile Strength (MPa)	30	ISO 527
Compressive Strength (MPa)	75	ASTM D 695
Hardness (Shore D)	78	ISO 868

## Application Information - Surface Preparation

To achieve perfect results, the mixing ratio must be applied correctly. Changing the mixing ratio causes the surface to not dry properly and not reach its final mechanical properties. It is essential to use a scale while preparing the mixture.

The application surface must be solid and free of all kinds of dust and dirt. Ambient temperature should be 18 - 23 °C and humidity level should be below 50%.

## Application

30 g of component B should be mixed into 100 g of component A by weight. When weighing, component A should be weighed first and component B should be added to it. To obtain a homogeneous mixture, the components must be mixed thoroughly at low speed for 3-4 minutes. The system tends to heat up in the container it is mixed in. Only the amount of product to be applied should be mixed.

Before mixing, the material temperature is increased by 22°C-25°C.

If the material will be used to strengthen the marble block; In order to ensure complete homogeneity of the block to be strengthened, the marble mass must not meet with water at all stages of lamination. If it meets with water, curing will not be complete.

As the first stage, the bundling and vacuum lines of the block are completed and the bonding is checked. As the second stage, SUFFIX EP VK 30 Mixture is prepared in the mixing ratio specified in TDS, as the third stage, the vacuum process is started, leaks are checked and the process is started.

## Cleaning After Application

The equipment used during application should be cleaned with a suitable solvent immediately after application.

## Storing and Shelf Life

Our products are kept tightly closed at room temperature, protected from sunlight. The resin part (component A) should be at 22°C-25°C, especially during winter months. Keeping the epoxy at lower temperatures causes crystallization and in this case a clear mixture cannot be obtained. If the epoxy temperature is below 10 °C, the temperature of the material is carefully increased by 22 °C-25 °C with a water bath in the container.

It can be stored in its unopened original containers, in dry environments between 5°C and 25°C, for 1 year from the date of production. Material in opened buckets should be used immediately.

## Packing

SUFFIX EP VK 30 a set of 26 kg;  
A component 20 kg metal bucket packaging  
B component 6 kg plastic drum

## Consumption

(A+B) 1m<sup>2</sup> @ 1mm thick is 1.07 kg

## Safety Precautions

SUFFIX EP VK 30 should not be smoked during its application and should be worked in well-ventilated environments, away from naked flames. It should not be forgotten that solvents are heavier than air and therefore will circulate on the ground. During application, work clothes, protective gloves, glasses and masks that comply with occupational health rules should be used. Due to the irritating effects of the uncured product, the components should not be contacted with the skin or eyes. In case of contact, it should be washed with plenty of water and soap. If swallowed, consult a doctor immediately. For detailed information, please refer to the Safety Data Sheet (MSDS) or contact our technical units. Keep out of reach of children.

None of our instructions and technical specifications written herein are binding in general and EXCLUSIVELY in accordance with the protective rights of third parties and do not exempt you from the obligation to carry out the necessary examination to determine the suitability of our products. Our company is not responsible for any damages that may occur as a result of natural damage or due to use and/or product reliability or information and instructions, for whatever reason and to whatever extent.

