

## Technical Data Sheet

# Epox-5111

**(Fast cure epoxy resin for strengthening natural stone slabs)**

### Product description

This product is a two-component epoxy adhesive for repairing and regenerating cracked surfaces in natural stones and concrete. The low viscosity of this adhesive causes rapid penetration into cracks and small pores in stone and concrete surfaces. Thinness, strength Yellowing and excellent mechanical properties of this product have been welcomed and used in stone cutting factories for reinforcement with fiberglass mesh behind the stone slabs and filling the pores in the surface of the slabs, this product after complete cooking It is completely resistant to water, ice and weather conditions.

### Product properties

Completely transparent

Low viscosity and permeable to the surface

Curable at ambient temperature

Resistance to moisture, water and chemicals

Excellent adhesion

High resistance to temperature shocks

High resistance at temperatures below zero degrees

Good resistance to yellowing by sunlight

Very long life

### Instructions

The amount of strength and durability of this adhesive depends on how to prepare the substrate and the correct mixing to apply the adhesive on it.

For the least possible preparation, the desired surface should be cleaned of any dust, oil and grease.

Use cleaners such as acetone to clean greasy surfaces.

Resin and hardener should be thoroughly mixed at room temperature.



## Mixing procedure

Measure at 5 volumes of part A and 1 volumes of part B

## Product specification

	<b>Resin</b>	<b>hardener</b>
Appearance	clear liquid	clear liquid
Mixed viscosity at 25 c	400-600 cps.	
Specific gravity	1.1	
Pot life at 25 c (100gr)	12 min	

## Cure time

168 hours at 5 c

72 hours at 15 c

48 hours at 25 c

24 hours at 35 c

## Tack-free time(thin film initial cure)

12 hours at 15 c

8 hours at 25 c

3 hours at 35 c



## Equipment maintenance

All tools should be cleaned with hot soapy water before the adhesive residue dries. Removing cooked debris is a difficult and time consuming operation. If solvents such as acetone are used for cleaning, staff should take appropriate precautions and, in addition, avoid skin and eye contact.

## Typical Physical Properties

Property	value	test method
tensile strength	40 mpa	ASTM D638
tensile shear strength steel/steel	13 mpa	ASTM D1002
compressive strength	80 mpa	ASTM D695
flexural strength	40 mpa	ASTM D790

## health and safety

The adhesive should be stored in closed containers at a temperature of 25 degrees.

After using the material, close the lid of the remaining material tightly.

Before using the material on the surface, make sure that there is no dust, damp or moisture on the surface.

Before using the material, clean the surface from any grease and dirt.

Wear industrial gloves and a mask when using materials.

