

## Technical Data Sheet

# Epox-4111

## (Epoxy adhesive for installing natural stone slabs )

### Product description.

This product is a two-component epoxy adhesive with the property of non-sharia and filling to bond different surfaces to a construction industry. It is suitable for the following applications.

### Application areas

Prefabricated concrete products

Concrete pipes and tanks

Injection bolts

Fiberglass parts

Natural stones

Concrete floors and stairs

Ceramic bricks

Concrete columns

Metals

Damaged concrete molding

### Advantages

Simple mix ratio 1: 1

Thixotropic tissue, which combines easily

No falling on vertical surfaces

Quick setup

Adhesion and curing in adverse conditions (cold and wet)



Maintain good strength after prolonged immersion in water

Superior tensile and compressive strength of concrete

Very good chemical resistance

## Typical Properties

|                              | Part A            | Part B            |
|------------------------------|-------------------|-------------------|
| Appearance                   | Thixotropic paste | Thixotropic paste |
| Colour                       | white             | Gray              |
| Density (g/cm <sup>3</sup> ) | 1.54              | 1.54              |

## Pretreatment

The strength and durability of a bonded joint are dependent on proper treatment of the surfaces to be bonded. At the very least, joint surfaces should be cleaned with a good degreasing agent such as acetone, isopropanol (for plastics) or other proprietary degreasing agents in order to remove all traces of oil, grease and dirt. Low-grade alcohol, gasoline, or paint thinners should never be used. The strongest and most durable joints are obtained by either mechanically abrading or chemically etching the degreased surfaces. Abrading should be followed by a second degreasing treatment.

## Processing Data

|                                  |   |
|----------------------------------|---|
| Mixing Ratio:                    | 1 part resin to 1 part hardener by volume |
| Mixing:                          | Mix until uniform grey or white           |
| Working life at 25°C:            | 45 minutes                                |
| Minimum Application Temperature: | 10°C                                      |
| Minimum Cure Time:               | 12 hours at 25°C                          |
| Full Cure Time:                  | 4 days at 25°C                            |

## important information

It is necessary to use the volume ratio equal to the first and second components when mixing. If you do not pay attention to these ratios, there is a possibility of reducing the physical properties of the mixture after baking. There is a time effect.



## 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                   | 28 mpa | ASTM D638   |
| tensile shear strength steel/steel | 10 mpa | ASTM D1002  |
| compressive strength               | 80 mpa | ASTM D695   |
| flexural strength                  | 15 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.

