

EPAND-601

Technical data sheet



MAVAD ALI ALBORZ
مهندسی مواد آلی البرز

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 the 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 curing 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

Mixing procedure

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

| Product specification | Resin | hardener |
|--------------------------|--------------|--------------|
| Appearance | clear liquid | clear liquid |
| Mixed viscosity at 25 c | 400-600 cps. | |
| Specific gravity | 1.1 | |
| Pot life at 25 c (100gr) | 20 min | |

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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

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 |