

BAU RI

Injecting epoxy resin two components

Description

Two-part, solvent-free, low viscosity injection liquid, based on high strength epoxy resin. With zero shrinkage and excellent adhesion to concrete, mortar, stone, steel, wood etc. Used to fill and seal voids and cracks in structures such as bridges and other civil engineering buildings, industrial and residential buildings, e.g. columns, beams, foundations, walls, floors and water retaining structures. It forms an effective barrier against water infiltration and corrosion-promoting media and structurally bonds the concrete sections together..

Features – Ideal for:

- High resistance to common chemical
- High hardness, friability without showing friability
- Excellent adhesion & penetration
- Both components are supplied in containers ready to be mixed
- Achieve and very high final strength
- High compatibility even with substrates with high moisture content
- High compatibility with all standard building materials
- Wide range of heat resistant (-40 ° C to +90 ° C)
- Zero shrinkage
- Impervious to water
- High resistance to permanent presence of water
- Excellent adhesion between new and old concrete
- High protection to the metal from rusting

Examples of applications:

Concrete, cement mortars, ceramics, brick, wood, epoxy, polyester materials, glass, steel, cast iron, aluminum, stone, metal, etc.

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It forms an effective barrier against water infiltration and corrosion-promoting media and structurally bonds the concrete sections together.

Surface Preparation

Provide sufficiently stable surfaces and remove loose, detached parts, dirt, grease, etc. Concretes which is to be applied with BAU RI must be older than 28 days

Mixture preparation

Components A and B are provided in containers ready to be mixed. Stir well the components A and B using a low speed of electric mixer until the mixture becomes homogeneous. For small amounts of material mixing can be done manually with wt % ratio of component A 70% and component B 30%.



Instructions for use

Sealing cracks - resin injections. The resin injections are a method of promotion pressure of thinly liquid resin BAU RI cracks in the concrete to completely fill the internal voids. For the application of resin injections should follow the following procedure: Thoroughly clean the crack and remove plaster residue or other coatings with the help of compressed air. Install nozzles which will pass the resin BAU RI surface and fill the crack between them, with the help of epoxy paste BAU RP (the distance from one nozzle to another must be 15-25 cm). Apply a thin resin BAU RI under pressure into the crack using pump pressure 1 - 3 atm. For a horizontal crack start from one end. For a vertical crack, start from the lowest point. When you see resin from the next nozzle pressure and stop. Plug the first and follow the same process for all nozzles. The process is completed by removing the nozzle and the material surface sealing of the crack after 24 hours.

Position reinforcing bars

BAU RI is suitable for anchoring. Apply a thin epoxy resin BAU RI vertical holes or small deviations from the vertical. The hole diameter D must be $D = \text{diameter of the rod (d)} + 4 \text{ mm}$ and the hole depth $h \geq 10 \cdot d$. Clean the holes after drilling with air under pressure to remove residual drilling. Finally, fill the holes with BAU RI about half their depth. Immediately after use, clean application tools with water or dilute aqueous solution of ethyl alcohol 20% w/w.

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Technical features

Form Thin liquid	
Density (A+B): 1.10 kg/l	
Tint mixture: Transparent yellowish	
Chemical type: 2 component epoxy resin	
Recommended application temperature: > 10 °C < 30 °C	
Shrinkage: Zero	
Viscosity	
+10 °C	1150 MPa.S
+20 °C	420 MPa.S
+30 °C	200 MPa.S
Working time	
Temperature	Time
+5 °C	130 minutes
+10 °C	85 minutes
+30 °C	15 minutes
Compressive strength after 7 days in accordance with DIN EN 196: Temperature +23 °C	
72 N/mm ²	
Flexural strength after 7 days in accordance with DIN EN 196: Temperature +23 °C	
64 N/mm ²	
Tensile strength after 7 days in accordance with ISO 527: Temperature +23 °C	
35 N/mm ²	
Adhesion to concrete (100% crushing of concrete): ≥ 4 N/mm ² (100% crushing of concrete)	
Flexural strength after 7 days in accordance with DIN 53452: 1600 N/mm ²	

Consumption

1,1 kg/m²/mm

Package

Cans of 1 kg (A + B)

Storage

In shady preferably covered areas with low humidity for at least 12 months in original sealed packaging.

Precautions – Safety

We recommend the use of protective goggles and gloves when mixing and applying the material. After full maturation, BAU RI is completely safe.

Notes

Technical details, properties, recommendations and information on BAUSKIN products are supplied in good faith. They are based on the company's research and experience, provided that they are stored and applied under normal conditions. As the method of using materials as well as project and environment conditions are beyond the control of the company in each individual application setting, the product user is held solely responsible for the result of application. No responsibility under any legitimate relationship can be substantiated against the company, based on the information set out hereunder. Product users are advised to refer to the latest revision of the technical manuals available.

Exclusive distribution for Greece:

BAUFOX Ltd
Email: info@baufox.com
www.baufox.com

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Email: info@altocy.com
www.altocy.com

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