

Injectable repairing epoxy system

UZIN INJEX A/B

Strengthening agent, for crumbly cementitious structural elements

Description:

UZIN INJEX A/B is an impregnation, 2-component, thin epoxy-based repairing system with low viscosity, solvent-free. It is suitable for strengthening loose, crumbly, and sandy cementitious structural elements. Injectable by means of suitable equipment.

Suitable for/on:

- ▶ Strengthening subfloors
- ▶ Girders, rafters, joists
- ▶ Injection/filling of cracks, joints, gaps etc.
- ▶ Compaction of metal rebars/steel reinforcement bars in concrete

Product Properties /Benefits:

2-component thin epoxy resin for impregnation applications. Develops excellent adhesion and high mechanical strengths to mineral substrates or other smooth/dense structural surfaces.

Composition: epoxy resin and hardener.

- ▶ Contains no solvents
- ▶ Versatile product
- ▶ Excellent adhesion onto metal surfaces
- ▶ Optimum concrete filling
- ▶ Low viscosity/thin fluid

Technical Data:

Packaging:	Metal tins A/B
Pack size:	A+B=1kg & A+B=5kg
Shelf life:	minimum 12 months
	2.84A w/w :1B w/w
	1kg A= 0.74kg, B=0.26kg
Mixing ratio:	5kg A= 3.70kg, B=1.30kg
Color:	Yellowish
Working temperature:	min. 10 °C on floor level
Working time:	approx. 20 minutes*
Set to foot traffic:	after approx. 10 minutes*
Ready for floor coverings:	after approx. 15 minutes*
Final strengths:	after 7 days*

*At 21°C and 65% relative humidity. See also "Application".

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Substrate Preparation:

The subfloor must be firm, able to bear sufficient loads and have adequate grip. It must be free of grease, oil, and non-adherent components. It must also be free of any layers or contaminants that could reduce the adhesion. (Compressive strength at least 25 MPa (N/mm²), average tensile strength >1.5 MPa (N/mm²), smallest single value > 1.0 MPa (N/mm²).

Prior to work, the subfloor must be adequately dry:

• Cement screed subfloors:	< 4	CM%
• Anhydrite:	< 0.5	CM%
• Magnesite:	2-4	CM%
• Concrete class > B35:	< 3	CM%
• Concrete class < B35:	< 4	CM%

Remove non-adherent layers and contaminants by suitable mechanical means (e.g., shot blasting, milling, or sanding). Then remove all dust using an industrial vacuum cleaner.

Larger repairs and the filling of gaps, holes and other unevenness must be carried out with the recommended UZIN products.

Caution! Do not apply the product in case of existing moisture.

Application:

As primer before scratch layering:

Thoroughly mix the two components for at least 3 minutes with an electrical mixer (speed ca. 300 – 400 rpm). Then transfer to a clean bucket and mix thoroughly once again for 1 minute. Apply a closed and even layer of the mixture to the subfloor using a brush or lambskin roller. Then brush in with a brush to ensure all pores are sealed.

As impregnation resin/injection resin:

Thoroughly mix the two components for at least 3 minutes with an electrical mixer (speed ca. 300 – 400 rpm). Then transfer to a clean bucket and mix thoroughly once again for 1 minute.

Apply a closed and even layer of the mixture to the subfloor using a brush or lambskin roller.

Several layers may be necessary, depending on the porosity of the subfloor.

Clean tools and equipment immediately after use. Fully hardened material can only be removed by mechanical means.

Consumption Table:

Application	Consumption
Primer	150 - 250 g/m ² depending on the porosity of the subfloor
Impregnation /injection resin	250 - 300 g/m ² depending on the porosity of the subfloor

* At 21°C and 68% relative humidity.

Important Notes:

- ▶ Minimum temperature of the subfloor: +10°C and +3°C above the dew point.
- ▶ Room/processing temperature:
Min: + 15°C
Max: + 30°C
Optimum: + 20°C
- ▶ In general, higher temperatures shorten the pot life, whilst lower temperatures prolong the curing.
- ▶ Maximum relative humidity: 80%
- ▶ The two components must be acclimatized in the working area prior to use for at least 24 hours.

Protection of the workplace and the environment:

Comp. A: Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects. Eye Irrit. 2: H319 - Causes serious eye irritation. Skin Irrit. 2: H315 - Causes skin irritation. Skin Sens. 1: H317 - May cause an allergic skin reaction.

Comp. B: Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects. Repr. 1B: H360F - May damage fertility. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Skin Sens. 1: H317 - May cause an allergic skin reaction.

Both components: Risk of irritation and/or chemical burns to the eyes, respiratory organs, and skin. Can cause hypersensitivity if contacted with the skin. If contacted with the skin, immediately wash the skin with a lot of water and soap. If contacted with the eyes, immediately flush the eyes with water and consult a doctor. Wear suitable protective gloves and safety glasses. "Harmful to the environment" in the liquid state, hence, prevent discharge into drains, surface waters or onto soil. Heed, amongst other things, the following: Neutral odor and ecologically and physiologically harmless once completely dry.

For allergy information, call Poison Center +30 210 7793777 (Greece).

Disposal:

Do not discharge into drains, surface waters or onto soil. Empty, scraped out and leak-free metal containers can be recycled. Containers containing non-cured residues of product as well as all other non-cured product residues must be disposed of as hazardous waste. Containers containing cured residues of product can be disposed of as building site waste. For this reason, gather product residues, mix the components, leave to harden, and then dispose of as building site waste.