

## am PU Injection

### DESCRIPTION

**am PU- Injection** is a one-component polyurethane resin, free of halogens, made up of a mix of isocyanides, special additives and an accelerator prepared according to a formula developed in the Asia Mortar research laboratories.

During its pot life, **am PU- Injection** must be injected through special packers into the structure that needs to be waterproofed, by a piston pump or a membrane for one-component products. When the resin is in contact with water, it forms a semi-rigid waterproof polyurethane foam.

Thanks to its high fluidity, **am PU- Injection** penetrates into several hundred micron wide cracks and can seal them even if they are subject to water seepage.

### USES

- Waterproofing concrete structures and cracked masonry subject to water seepage, also under pressure.
- Waterproofing rocks subject to water seepage.
- Waterproofing permeable grounds saturated with water.

### Some application examples

- Waterproofing tunnels subject to water seepage through cracks or cold joints between ashlar.
- Waterproofing wells or hydraulic structures that leak water through working joints or cracks.
- Repairing cracks in dams, canals and crest gates, even under the water bed.

### APPLICATION PROCEDURE

#### Sealing cracks by injection

Place the injectors. Site off-set holes on the sides of the cracks. The size of the holes should fit the diameter of the injectors that will be used. Expansion injectors with a non-return valve, can be easily fixed, by their rotation, to block them completely to the walls of the hole.

If there is no water seepage, normal metal or plastic pipes with a diameter of approximately 10 mm can be used, it is necessary to inject water before injecting **am PU- Injection** in order to obtain an expanding reaction. In the presence of water seepages, standard metallic or plastic pipes with a diameter of approximately 10 mm can be used and must be fixed with **am Flexleak**.

### TECHNICAL & PHYSICAL DATA

#### PRODUCT IDENTITY

Specific gravity (g/cm<sup>3</sup>): 1.18 at +20°C 1.21

Colour: dark brown/redish redish

Viscosity (at +15°C) (mPa•s): 380 ± 50 25 ± 5

Viscosity (at +23°C) (mPa•s): 200 ± 30 25 ± 5

Hazard classification according to EC 99/45: harmful.

It is recommended to carefully read the instructions for use and refer to the safety data sheet  
Storage: 6 months in original sealed packaging, protect from moisture and store at a temperature between +10°C and +30°C

Customs class: 3909 50 90

#### APPLICATION DATA

Reaction in relation to the temperature with 10% accelerator:

– temperature: 5°C 10°C 15°C 23°C

– initial growth time in seconds: 21 19 17 11

– end growth time in seconds: 80 76 68 62

Reaction in relation to the temperature with 15% accelerator:

– temperature: 5°C 10°C 15°C 23°C

– initial growth time in seconds: 18 15 12 8

– end growth time in seconds: 62 50 48 41

Expansion ratio in free air: 40-60

Dimensionally stable: yes

## PACKAGING

AM PU Injection is supplied in 20 kg drums.

## STORAGE

Store the product in a dry sheltered place in its original sealed packaging at a temperature between +10°C and +30°C.

## HEALTH & SAFETY

AM PU Injection contains diphenylmethane di-isocyanides which is harmful and causes sensitivity when inhaled. It is irritant to eyes, respiratory system and skin.

It is recommended to protect eyes with goggles, and skin with gloves while preparing and using the product. Use the product only in well ventilated areas and protect respiratory apparatus. In case of contact with eyes and skin, wash with plenty of clean water and consult a doctor.

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