

## Mahagrout<sup>®</sup> PU – R Foam

### Polyurethane Based Injection Grout- Foam

#### Description

**Mahagrout PU – R Foam** is a single component, phthalate free, hydrophobic, polyurethane injection grout to be used as water stop.

**Mahagrout PU – R Foam** is solvent free and MDI-based water reactive polyurethane injection foam. It reacts only with water forming a semi-rigid hydrophobic seal. It expands over 30 times of its original volume when brought in contact with water.

#### Features / Advantages

- Mahagrout PU – R Foam forms after the reaction with water, a semi-rigid seal in the crack or joint.
- Fast reacting semi rigid PU foam, used as a water stop for the sealing of leakages or to stop active water leaks with a high flow and/or high hydrostatic pressure.
- Penetrates deep in fine cracks because of its low viscosity.
- Free expansion up to 20-30 times by volume.
- Depending on the amount and the velocity of the water leakage.
- Excellent adhesion to all types of mineral construction materials (such as concrete, cement, brick, metal and certain plastics).
- Mahagrout PU – R Foam is chemically resistant against water, weak acids and alkali, mineral oils, fungus and bacteria, ground water, sea water etc.

#### Typical application

- Sealing of water bearing cracks in concrete and masonry by pressurized single component injection equipment.
- Basements, underground / overhead water tanks, swimming pools.
- Wet rooms and other super and sub-structures.
- Tunnels and water reservoirs.
- Metros.

#### Suitable Substrate

- Mineral substrates e.g. concrete, cement & brick.
- Sealing of water bearing cracks.
- Metal and certain plastics.

#### Technical Information

Mahagrout PU – R Foam (Mixed)		
Physical data	Unit	Mahagrout PU – R Foam
Appearance	-	-
Viscosity at 25°C	mPa.s	150-170
Density	kg/m <sup>3</sup>	1.00 ± 0.05

#### Methods of Application

##### Surface Preparation

- The crack area to be waterproofed must be sound.
- For aggressive leaks, prior to the injection, the cracks can be sealed using Rhino Plug.
- The crack that needs to be treated is to be studied in detail for wall thickness and distance from the crack where boreholes need to be drilled.
- Holes are drilled on either side along the course of the crack at a distance of 30cm center to center.
- In most cases, the boreholes need to be drilled at an angle of 45° into the wall and towards the crack to ensure that the borehole intercepts the crack beyond the second half of the wall thickness.
- Injection packers are inserted into the holes and screwed tightly in place. The injection process is preferably done from bottom to top for vertical surfaces.
- The diameter of the drill holes depends on the type of injection packers chosen.

##### Methodology

- The ready material should be installed immediately using conventional injection pumps.
- After the injection of Mahagrout PU – R Foam, the crack can be permanently sealed by using Mahgrout PU-Gel

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### Consumption

Approx. 100g / l void



### Packing

10kg & 20kg



### Cleaning of Tools & Equipments

Clean the tools immediately after use with solvent based cleaner.



### Storage and Shelf life

Store the material at temperatures between -10°C to +35°C, in originally sealed packages, the material can be stored for 12 months. Before opening the drums be assured the temperature of the materials has to be ambient temperature to avoid condensation.

This is because it has no direct or constant control over where or how its products are applied, and whether or not in accordance with the advice specification, recommendation or information given by it.

### Ecology, Health and Safety

Health & Safety instructions, all chemicals should not come in contact with skin and eyes or be swallowed. Protective gloves and goggles should be worn.

If contact with skin occurs, wash well with soap and water.

Eye contamination should be washed thoroughly with clean water and medical advice sought. If swallowed seek medical attention immediately. Do not induce vomiting.

### Disclaimer

The technical data contained herein is based on our present knowledge and experience and we cannot be held liable for any errors, inaccuracies, omissions or editorial failings that result from technological changes or research between the date of issue of this document and the date the product is acquired. Before using the product, the user should carry out any necessary tests in order to ensure that the product is suitable for the intended application. Moreover, all users should contact the seller or the manufacturer of the product for additional technical information concerning its use if they think that the information in their possession needs to be clarified in any way, whether for normal use or a specific application of our product.

Our guarantee applies within the context of the statutory regulations and provisions in force, current professional standards and in accordance with the stipulations set out in our general sales conditions.

The information detailed in the present technical data sheet is given by way of indication and is not exhaustive. The same applies to any information provided verbally by telephone to any prospective or existing customer.



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