

## Mahagrout<sup>™</sup> PU-Gel

### Polyurethane Resin Based Injection Grout - Gel

#### Description

**Mahagrout PU - Gel** is a solvent-free, two component MDI-based polyurethane injection resin for crack injection. It is permanently elastic and thus allows a permanent crack and joint sealing even in case of movement of the crack. It can be used as a two component system as well as in a premix of both components as one component.

**Mahagrout PU - Gel** is phthalate free and has a mixing ratio of 1:1 in volume or in weight.

#### Features / Advantages

- Fast and permanently elastic waterproofing for cracks and joints.
- Waterproofing of active leakages.
- Structural Repair.
- High resistance to the movement of the structure.

#### Typical Application

- Injection in wet and dry structures.
- Injection of very fine cracks.

#### Technical Information

Mixing Ratio		
Properties	Unit	Result
By weight	-	01:01
By volume	-	01:01

  

"A" Component		
Properties	Unit	Result
Viscosity at 25°C	mPa.s	Clear 30-60
Density	kg / m3	1.040 - 1.060

  

"B" Component		
Properties	Unit	Result
Viscosity at 25°C	mPa.s	Dark brown 80 - 140
Density	kg / m3	1.120 - 1.140

  

Mixture		
Properties	Unit	Result
Viscosity at 25°C	mPa.s	Brown 40 - 60
Density	kg / m3	1.080 - 1.100
Gel time at 25°C	minutes	70-90
Pot life at 25°C	minutes	60-80

  

Mechanical Properties		
Properties	Unit	Result
Tensile strength.	Mpa	1.5 - 2.5
Elongation At break	%	30 - 50
Shore hardness	A	50 - 70

#### Suitable Substrates

- Mineral substrates, e.g. concrete, screeds, masonry as well as for solidifying granular soils.
- Can be used in combination with Mahagrout PU - R Foam for the permanent, elastic sealing of water bearing cracks and joints in walls, floors and concrete constructions.
- Used in cases where future movements of the building structure cannot be excluded.

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#### Methods of Application

##### Surface Preparation

The crack 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 bore holes need to be drilled.
- Holes are drilled on either side along the course of the crack at a distance of 30 cm from centre to centre.
- In most cases, the bore holes 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.

##### Mixing

- The Mahagrout PU-Gel component A & B is mixed in the required mixing ratio of 1:1.
- The component B is added to the component A & mix it continuously by using a slowly rotating electrical mixer for 3 minutes.
- This is then transferred to a fresh, clean and dry container and mixed for a further 3 minutes.
- The material must be mixed until it is streak free and homogeneous in appearance and consistency.
- The mixed Mahagrout PU-Gel is now ready to be changed into the injection equipment.

##### Methodology

- Water flow in water bearing cracks, joints and voids are first stopped through the injection of Mahagrout PU - R Foam.
- The ready mixed material should be installed within 60 minutes using conventional injection pumps such as electrical injection pump.
- For areas where the ambient temperature is very low, the reaction can be hastened up by adding a special catalyst to very short gel time (a couple of minutes).



##### Packing

10kg & 20kg



##### Storage and Shelf life

In originally sealed packages, the material can be stored for 12 months.



##### Cleaning of Tools & Equipments

Clean tools immediately after use with solvent based cleaner.

##### Precautions & Limitations

Wear protective gloves and goggles when processing the material. When carrying out injection work, make sure to protect the surrounding work area from injection resin that may be discharged from the wall, packers, drill holes, etc. Do not stand directly behind the packers during injection.

##### 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.

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#### Disclaimer

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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.

# Mahafix

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