

## ECMAGROUT PU G 800

**FLEXIBLE, POLYURETHANE, HYDROPHILIC GEL**

### Description

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ECMAGROUT PUG 800 is a single component, hydrophilic, MDI based, solvent and phthalate free polyurethane to be used as water stop system producing an elastomeric gel. When injected in to leaking structures, it reacts with water in a controlled manner to form a flexible, hydrophilic gel that permanently stops water leaks and consolidates the ground behind and under concrete structures.

### Advantages

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- Deeper penetration to fine cracks due to exceptionally low viscosity
- Flexible and Hydrophilic Gel
- Excellent adhesion to concrete
- Very good chemical resistance to most acids & alkalis.
- Can withstand high hydrostatic pressures.
- Water soluble in uncured state
- Suitable for the applications where fluctuating groundwater levels are encountered
- Solvent, TDI and Phthalate free
- Non-toxic, suitable for use in contact with potable water
- Suitable for hot and cold climates

### Uses

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- A liquid but solidifying gel membrane applied to the positive side of a concrete structure from the negative side
- A vertical barrier to fill the voids/joints in masonry walls
- To stop water leakage into underground sumps, pits etc.
- Soil stabilization for foundations.
- To prevent water ingress, oozing from ground.
- Preventative or remedial waterproofing of structures.
- Shutting off heavy water leakages
- For sewer repair, manhole repair, soil stabilization, etc.
- Possesses excellent adhesiveness to soil particles and it is therefore can be useful in landslide prevention & Consolidation of loose or unstable ground.

### Installation Guidelines

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ECMAGROUT PU G 800 should be applied by experienced injection crews. ECMAS provides detailed method statements on all its products for use in various applications. These must be referred to prior to starting work. The information below is a summary intended for guidance only.

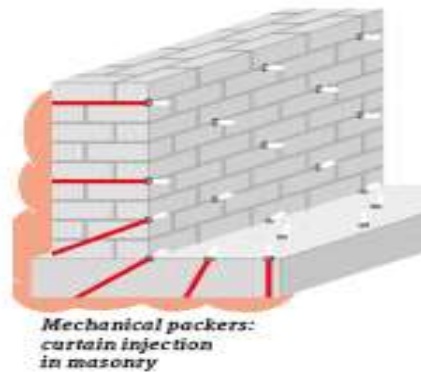
Detailed information and guidance on pump and packer selection for specific requirements are available from ECMAS.



## Injection process

- Holes are drilled in the affected area in grid pattern. The spacing of the holes will depend on the prevailing site conditions
- Water can be forced into the hole to determine whether all cracks can be injected and if additional injection/pressure control holes need to be drilled.
- Visible surface leaks and cracks should be sealed with fast setting ECMAREP 504 prior to injection. Allow ECMAREP 504 to harden completely before injecting ECMAGROUT PU G 800.
- Use standard packers and equipment.
- ECMAGROUT PUG 800 is then injected into the holes with a high-pressure pump increasing pressure slowly up to 200 bars. This forces the ECMAGROUT PUG 800 deep into the structures and allows penetration into the smallest cracks.
- When surface leaks show up during pumping, stop immediately and seal the leak by approved method.

The ECMAGROUT PU G 800 should be injected by a positive displacement plunger type pump. Consumption has to be estimated by the engineer or operator and depends on width and depth of the cracks and voids to be filled.



## Technical Specifications

Physical Appearance	Pale yellow to yellow to viscous liquid
Viscosity (mPa.s)	800 $\pm$ 100
Specific Gravity	1.08 $\pm$ 0.02
Volatile Organic Content	$\leq$ 5g/L
Min and max use temperature	5°C to 45°C
Packaging	20 Kg

# ECMAGROUT PU2 G 800

## Cleaning

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Injection pumps should be flushed and tools cleaned immediately after use, before the resin sets. Use the ECMACLEAN to be sure the part will be clean. Once the resin has set, it can only be removed by mechanical means.

## Precautions

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Cured gel of ECMAGROUT PU G 800 is a safe material. However, during injection works, it is necessary to pay attention to safety in handling. Do not keep left over material in open condition. Clean all tools with any standard solvent before polymerization starts.

## Shelf Life & Storage

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6 months when stored 5°C and 25°C and less than 50% relative humidity if kept in a dry store in the original, unopened containers. Once a pack has been opened use immediately. Purging a part pack with nitrogen is essential. Contact ECMAS for more details.

## Health and Safety

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- This product is for industrial use only by trained operatives.
- All persons in contact with the materials should wear the appropriate protective clothing, spectacles and gloves.
- Ensure adequate ventilation while injecting in confined spaced like tunnels, underground sites, etc.
- Like any other chemicals, it is potentially hazardous if not used correctly. Please refer to the Material Safety Data Sheet (MSDS) prior to the purchase and use of this product.

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