

## Syntech HAG Mono

Low viscosity hydro-expansive single-component polyurethane resin



Resina poliuretana monocomponente idroespansiva (non necessita di catalizzatore e aumenta il proprio volume iniziale di circa 3 volte), esente da solventi, ideale per sigillare, mediante iniezione, piccole e grandi infiltrazioni d'acqua nel calcestruzzo o nelle murature piene in genere. Ideale per colmare grandi vuoti e vespai interni alle murature. Reagisce con l'acqua e forma una schiuma flessibile a cellule chiuse. Sviluppato per l'applicazione in strutture umide e asciutte.

**CUSTOMS CODE:** 3909 5090

**COMPONENTS:** Single-component

**APPEARANCE:** Liquid

**AVAILABLE COLORS:** Amber

**PACKAGING AND DIMENSIONS:** Can 25 kg

### FEATURES AND BENEFITS

- Thanks to its flexibility, the foam is able to partially absorb the movement of the crack.
- Penetrates deeply even into thin cracks.
- Does not need any additional catalyst to react with water.
- Reacts with water to form carbon dioxide gas. This gas produces a swelling pressure and the resin expands into a dense closed-cell foam, sealing all water penetrations.
- Free expansion:  $\pm 300\%$
- Good general chemical resistance.

### FIELDS OF APPLICATION

Stops water infiltration into underground rooms. Ideal for sealing small cracks and fissures in concrete and solid masonry in general.

### ALLOWED SUPPORTS

Concrete - Prefabricated concrete - Bricks - Mixed walls (bricks and stones) - Stone walls - Rock walls

### PREPARATION OF SUPPORTS

The application surfaces must be clean, free of dirt, crumbly and inconsistent parts, dust, moss, mould, etc.. Prepare the appropriate injectors, usually arranged in a "quinquonce" pattern (from one side of the discontinuity to be sealed to the other). Inject plenty of water into the discontinuity beforehand until it is saturated (if not already present).



## MODE OF USE

Manually mix the product thoroughly in its packaging to make it homogeneous. Keep in mind that the resin may react with the same ambient humidity. Syntech HAG Mono resin can be injected with a single-component resin pump, manual or electric, at variable pressures between 40 and 200 bar. The reaction speed depends on the amount of water that is inside the structure or that is introduced before the resin. At the end of the operations, always carefully clean the pump used with Nitro thinner and the specific Syntech HAG Cleaner lubricating detergent.






## APPLICATION METHODS





Injection

## TOOL CLEANING

Nitro thinner

## KEY FEATURES

-  Density: 1113 g/cm<sup>3</sup>
-  Hydroexpansive product: +300 %
-  Shelf-life: 6 months
-  Temperature of use: +8 / +35 °C
-  Use wearing protective gloves

-  Highlighted product
-  Pot-life: < 5 min
-  Solvent-free
-  Use wearing protective glasses

## TECHNICAL SPECIFICATIONS

Viscosity **280 mPas**

## CONSUMPTION

The consumption of the product depends on the size of the void volume to be filled and on the expansive reaction that is triggered after mixing the two components in relation to the quantity of water present.

## STORAGE AND CONSERVATION

Store the product in its original packing, in a fresh and dry environment, avoiding frost and direct sunlight. Protect from humidity. Store the product at a temperature between +10°C and +30°C. Store in a covered and sheltered place.



## PHOTO GALLERY



## WARNINGS AND PRECAUTIONS

Syntech HAG Mono is physiologically harmless once the reaction has taken place. The product is packaged under dry nitrogen and is very sensitive to humidity, including environmental humidity. It is recommended to use a small quantity at a time and carefully close the cans before putting them to rest. Make sure the injectors positioned in the supports are securely held. Given the high injection pressures reached by the pumps, in the case of injectors not positioned firmly and correctly there is a real risk that they could escape from their seat at high speed (with the risk of injury to the operators!). Carefully study the positioning of the injectors near the wall discontinuities to be injected. Poor positioning, too close to the crack to be filled, under the pressure of the pump can cause the support itself to break. Be very careful when using electric pumps, which can easily reach 200 bar pressure, and therefore cause unwanted breakages of the concrete and masonry supports being injected. Remove resin residues coming out of the walls within a few hours after the infiltration has stopped. Delayed removal may be more difficult.

The general information, along with any instructions and recommendations for use of this product, including in this data sheet and eventually provided verbally or in writing, correspond to the present state of our scientific and practical knowledge.

Any technical and performance data reported is the result of laboratory tests conducted in a controlled environment and thus may be subject to modification in relation to the actual conditions of implementation.

Azichem Srl does not assume any liability arising from inadequate characteristics related to improper use of the product or connected to defects arising from factors or elements unrelated to the quality of the product, including improper storage.

Those wishing to utilise the product are required to determine prior to use whether or not the same is suitable for the intended use, assuming all consequent responsibility.

The technical and characteristic details contained in this data sheet shall be updated periodically. For consultation in real time, please visit the website: [www.azichem.com](http://www.azichem.com). The date of revision is indicated in the space to the side. The current edition cancels out and replaces any previous version.

Please note that the user is required to read the latest Safety Data Sheet for this product, containing chemical-physical and toxicological data, risk phrases and other information regarding the safe transport, use and disposal of the product and its packaging. For consultation, please visit: [www.azichem.com](http://www.azichem.com).

It is forbidden to dispose of the product and/or packaging in the environment.

