



MAXURETHANE® INJECTION CAT

CATALYST FOR THE MAXURETHANE® INJECTION SYSTEM

DESCRIPTION

MAXURETHANE® INJECTION CAT is a single-component, 100 % solids, solvent-free catalyst for **MAXURETHANE® INJECTION** injectable polyurethane resins.

APPLICATIONS

- Control of the gel time of **MAXURETHANE® INJECTION** polyurethane resin by adding between 2 and 10 %, by weight.
- Control of high-pressure water ingress.
- Applications in capillary networks and very fine cracks, and for soil stabilization.

ADVANTAGES

- Ensures complete reaction of the injected resin.
- Increases the degree of reaction and the foam volume of the injected resin.
- Provides a longer working life for the premixed product.
- Easy to use. Only single-component injection equipment is required.
- Low viscosity, even during the injection process, ensuring good and deep penetration into the substrate.
- Environmentally non-aggressive and solvent-free.

APPLICATION INSTRUCTIONS

Please refer to our technical note for the injection process described in the "**MAXURETHANE® INJECTION System**" for further information.

Mixing

MAXURETHANE® INJECTION CAT is supplied separately to allow adjustment of the gel time of the **MAXURETHANE® INJECTION** injectable polyurethane resin and to provide a longer working

life. A catalyst addition of between 2 and 10 % by weight is recommended; the optimum percentage should be adjusted on site according to site conditions.

Under high-pressure conditions, the polyurethane resin must react immediately so that it is not washed out or displaced by the water pressure. To obtain an accelerated reaction, use 10 % catalyst.

Conversely, to achieve greater penetration, it is recommended to use 2 % catalyst to ensure greater penetration of the resin into capillary networks and small cracks, or when soil consolidation is required.

The induction time for 1 litre of resin mixed with 5 % catalyst at 20°C is approximately 20 seconds. Low hydrostatic pressure allows greater penetration of the product into both cracks and the concrete capillary network.

The resin reacts with ambient moisture, so it is advisable to mix it with the catalyst immediately before starting injection. Do not mix more material than can be injected within a reasonable time. However, once catalysed, the resin can be stored for 3-4 days in tightly sealed bottles or drums.

Injection of the mixture

It is essential that all equipment is dry. Avoid any contact of the mixture with moisture to prevent premature reaction of the product. If the material reacts during injection, stop the equipment immediately and clean it with **MAXURETHANE® INJECTION CLEANER** to prevent blockage due to the formation of solid foam inside.

Before injection, it is advisable to assess the condition of the substrate to be treated, the type and number of fissures and cracks, the hydrodynamic and hydrostatic conditions, and the water quality.

Application conditions

Monitor the ambient temperature and humidity, as both determine the working life of the mixed material. As a general rule, high ambient humidity and temperature require less catalyst.

Curing

The reaction time of the product mixed with 5 % catalyst is 2 minutes at 20°C. Higher temperatures will accelerate curing and lower temperatures will slow down this process.

Cleaning tools and/or injection systems

All tools, utensils, and mixing and injection equipment must be cleaned immediately after use or whenever work is interrupted for a prolonged period using **MAXURETHANE® INJECTION-CLEANER**. Circulate the cleaning fluid through the injection pump for a few minutes. It is recommended to circulate mineral oil through the pump after the cleaning fluid if the pump will not be used for some time. Once polymerized, the material can only be removed by mechanical means. Do not use solvents for personal cleaning; use soap, detergents, or specific cleaning products. Ensure good ventilation of the work area during cleaning operations.

CONSUMPTION

Consumption will vary depending on the use. An on-site trial is recommended to determine the approximate consumption.

IMPORTANT INDICATIONS

- Observe the appropriate occupational safety measures during the injection process and when handling the products and pump.
- Avoid any contact of the mixture with moisture to prevent premature reaction of the product.
- For any application not specified in this Technical Bulletin or for additional information, please consult our Technical Department.

PACKAGING

MAXURETHANE® INJECTION CAT is available in 25 and 5 kg drums.

Accessories

DRIZORO® can supply injection equipment including **DRIZORO® B1** manual pumps or **DRIZORO® A2** electric pumps, injectors, pressure hoses, etc.

STORAGE

Six months in its original, unopened and undamaged packaging. Store in a cool, dry place protected from moisture, frost and direct sunlight, at temperatures between 5°C and 35°C.

SAFETY AND HEALTH

Always use protective equipment such as safety goggles, gloves and suitable clothing. During injection, a full-face mask is strongly recommended. As with any pressure injection work, accidental spills and ruptures of injectors or hoses may occur. If any component comes into contact with the skin, wash thoroughly with soap and water. Ensure adequate ventilation of the work area. If swallowed, seek immediate medical attention; do not induce vomiting.

Refer to the Safety Data Sheet for **MAXURETHANE® INJECTION CAT**.

Disposal of the product and its packaging must be carried out in accordance with current legislation and is the responsibility of the end user.

TECHNICAL DATA

Product characteristics	
Appearance	Liquid
Colour	Transparent
Density at 20°C, DIN 53 217/1-2 (g/cm3)	0,95 ± 0,1
Solids content, DIN 53189 (% by weight)	> 99
Flash point (°C)	Non-flammable
Catalyst addition (% by weight of mix)	2 – 10
Application and curing conditions	
Induction time with 2 % / 5 % / 10 % catalyst (s)	40 / 19 / 10
Reaction time with 2 % / 5 % / 10 % catalyst (min)	5-9 / 2 / 1

* Data for product mixed with 5 % catalyst (by weight) at 20°C and 50 % R.H.

GUARANTEE

The information contained in this Technical Bulletin is based on our experience and technical knowledge, obtained through laboratory testing and literature reviews. **DRIZORO®, S.A.U.** reserves the right to introduce changes without prior notice. Any use of this information beyond the purposes expressly specified herein will not be the Company's responsibility unless confirmed in writing by us. The consumption, dosage, and yield data provided are for guidance only. These data are subject to variation due to the specific atmospheric and on-site conditions; therefore, reasonable deviations may occur. To determine actual performance, an on-site trial must be conducted under the client's responsibility. Our liability is strictly limited to the value of the purchased product. For any further inquiries, please consult our Technical Department. This version of the Technical Bulletin replaces the previous one.



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