



# MAXGROUT® INJECTION

## VERY FLUID INJECTION MORTAR FOR CONSOLIDATING AND FILLINGS OF CAVITIES

### DESCRIPTION

**MAXGROUT® INJECTION** is a single component cement-based mortar with very fine mineral fillers. Once mixed with water, it is specially designed to be used for injection or grouting for filling of cavities in masonry walls and consolidating works.

### APPLICATION FIELDS

- Masonry and brick wall consolidation.
- Historic building foundations and structures consolidation.
- Hollows and cavities filling in walls affected by raising capillarity damp, previous to **MAXCLEAR® INJECTION** application.
- Grouting of anchors and fixings.

### ADVANTAGES

- It becomes structural part of the substrate.
- Very fluid, with no segregation or bleeding.
- Very good resistant to soil salts.
- It is waterproof and water-resistant.
- Harmless and chloride-free. Does not corrode steel reinforcements and fixings.
- Only needs water for mixing.

### APPLICATION INSTRUCTION

#### Hole preparation

For consolidating works in walls and structures, drill two horizontal lines separated from 0,5 and 1 m. The holes should be placed squarely and drilled in a downward direction at an angle of about 30° degree to horizontal with a recommended size diameter from 3 to 4 cm as well as separating with a uniform distance between them. The length must be about 5 cm shorter than wall

thickness. Drillings should be carried out from one side of the wall, but both sides can be drilled if it is necessary, e.g. wall thickness up to 0,7 m. In that case, the length for the holes should be the half thickness of the wall. In case of injecting **MAXGROUT® INJECTION** for filling cavities before using **MAXCLEAR® INJECTION** (Technical Bulletin n° 152), holes should be placed following **MAXCLEAR® INJECTION** application instructions.

#### Substrate preparation

Use **MAXREST®** (Technical Bulletin n° 4) to repair and fill all cracks and damages from the surface of the wall. Thoroughly dampen with water inside the hole until saturation and remove excess water before injection.

#### Mixing and injection

Pour water into a clean container and gradually add **MAXGROUT® INJECTION**. One 20 kg bag of **MAXGROUT® INJECTION** requires from 6 to 6,8 litres of water (32 % ± 2 by mass of weight). Mixing is best done by mechanical means such as a slow speed mixing drill (400 - 600 rpm). Mix until a homogeneous -free of lumps- fluid mortar, is achieved. Avoid any segregation of the mortar due to an excess of water during mixing. Mix the amount of **MAXGROUT® INJECTION** that can be placed within 20 minutes after mixing.

Application can be done by grouting or by low pressure injection methods. Begin the injection while inside the holes are still damp. Remix again the mixture to keep its workability if it is needed but do not add more water. The injection should begin from the lower holes and with a maximum pressure recommended up to 3 ATM. After **MAXGROUT® INJECTION** sets, patch all drills with **MAXREST®**.

### **Application conditions**

The temperature range for application is from 5 to 35 °C. Do not apply **MAXGROUT® INJECTION** below 5 °C or if such temperatures are expected within 24 hours after application. Do not apply on frozen or frosted surfaces.

### **Cleaning**

All tools and equipments should be cleaned immediately with water after use. Once it hardens, can only be removed by mechanical means.

### **CONSUMPTION**

One kg of **MAXGROUT® INJECTION** fills approximately 0,75 litres.  
The consumption for **MAXGROUT® INJECTION** depends on the porosity of substrate. A pre-liminary test on-site will determine consumption exactly.

### **IMPORTANT INDICATIONS**

- Never use leftovers from previous mixes.
- Do not add cement, aggregates or any other compound to **MAXGROUT® INJECTION**.
- For further information, consult our Technical Department.

### **PACKAGING**

**MAXGROUT® INJECTION** is supplied in 20 kg bags and it is available in standard grey colour.

### **STORAGE**

Twelve months in its original unopened packaging. It must be stored in a dry and covered place, protected from humidity and freezing, with temperatures above 5 °C.

### **SAFETY AND HEALTH**

**MAXGROUT® INJECTION** is an abrasive product, so both rubber gloves and safety goggles must be used to prepare and apply the mixture. In case of eye contact, rinse thoroughly with abundant clean water, but do not rub. In case of skin contact, wash affected areas with soap and water. If irritations persist, seek medical attention.

For further information, Safety Data Sheet of **MAXGROUT® INJECTION** is available by request.  
Disposal of the product and its empty packaging must be made by the final user and according to official regulations.

## TECHNICAL DATA

Appearance and colour	Grey powder
Maximum particle size (microns)	80
Apparent density of powder (g/cm <sup>3</sup> )	0,96 ± 0,05
Mixing water (water weight/product weight, %)	32 ± 2
Density of fresh mortar (g/cm <sup>3</sup> )	1,98 ± 0,05
Pot life at 20°C (min)	20-30
Segregation of fresh mortar	None
Density of cured mortar (g/cm <sup>3</sup> )	1,97 ± 0,05
Compressive strength at 28 days (Mpa)	48,5
Approximate consumption (kg/ litre of cavity)	0,750

## GUARANTEE

The information contained in this leaflet is based on our experience and technical knowledge, obtained through laboratory testing and from bibliographic material. **DRIZORO<sup>®</sup>, S.A.** reserves the right to introduce changes without prior notice. Any use of this data beyond the purposes expressly specified in the leaflet will not be the Company's responsibility unless authorised by us. We shall not accept responsibility exceeding the value of the purchased product. The data shown on consumptions, measurement and yields are for guidance only and based on our experience. These data are subject to variation due to the specific atmospheric and jobsite conditions so reasonable variations from the data may be experienced. In order to know the real data, a test on the jobsite must be done, and it will be carried out under the client responsibility. We shall not accept responsibility exceeding the value of the purchased product. For any other doubt, consult our Technical Department. This version of bulletin replaces the previous one.



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