



MAXBETON®

FAST-SETTING THIXOTROPIC MORTAR FOR PLACING AND FIXING OF CONSTRUCTION ELEMENTS

DESCRIPTION

MAXBETON® is a hydraulic, quick setting, non-shrink mortar for placing and fixing of elements in building and civil works. Its thixotropy allows the placing in both vertical and horizontal surfaces as well as overhead areas.

APPLICATION FIELDS

- Fixing of anchorages, pipes, sanitary fixtures, etc.
- Placing of doors and window frames and pre-frames made of wood or metal.
- Fixing of electrical installation mechanisms and connection boxes.
- Fixing of wooden wedges.
- Sealing around penetrating pipes and drains in water tanks, cisterns, etc.
- Placing and fixing of sewer lids, gratings or lattices in drains, etc.

ADVANTAGES

- Very fast setting and immediate placement into service of the fixed element.
- Develops high mechanical resistance both compression and flexural very quickly.
- No shrinkage.
- Very good resistance to freeze-thaw cycles
- One-component, only water is required for mixing.
- It does not contain chlorides, metallic aggregates or others corroding compounds.

APPLICATION INSTRUCTIONS

Surface preparation

Surface must be structurally sound, clean and free from dust, grease, paints, efflorescence,

oils, demoulding agents, gypsum, loose concrete or any other material that could affect to adhesion of the mortar. Areas where the anchorage or fixing will take place must be dampened with clean water providing a saturated surface dry with no excess of water prior to application. Special attention should give to this matter when dealing with very absorbent substrates or exposed to direct sunlight. Metal fixings must be clean free of grease, rust and dust.

Mixing

MAXBETON® sets very quickly, so mix only the amount of material that can be placed in the next two to four minutes. Mixing ratio is 0,2 litres of clean water per 1 kg of **MAXBETON®**. Mix manually with a trowel or spatula until obtaining a homogeneous lump free batter. At high temperatures or where is exposed to high winds, material will set very quickly so in order to slow down the setting time, cold water may be used. To shorten the setting time, warm or hot water may be used.

Application

Depending on the element to be placed, the following cases may occur:

- *Filling of the hole and then, placing the element.* For getting a good finish, compact and remove any excess material before hardening.
- *Placing of the element to be fixed and subsequent filling of the hole.* If the element to be anchored is heavy or it is going to be subjected to heavy loads, it could be advisable to keep immobilised the element during the first few hours until **MAXBETON®** has achieved a suitable mechanical strength.

Application Conditions

The optimum setting time corresponds with a temperature range from 15° to 25° C. Do not apply with temperatures below 5 °C or if lower temperatures are expected during the

following 24 hours. Do not apply at ambient temperatures above 35 °C.

Do not apply on frozen or frosted surfaces. Saturate surface plenty of water with high temperature or windy conditions.

Cleaning

Before **MAXBETON**[®] sets, all tools and equipment should be cleaned immediately with water. Once it hardens, can only be removed by mechanical means.

CONSUMPTION

One kg of **MAXBETON**[®] fills about 0,55 l (approximately 1,81 kg/ l).

PACKAGING

MAXBETON[®] is supplied in 25 kg bags and available in standard grey colour.

STORAGE

Twelve months in its original unopened packaging. It should be stored in a dry, fresh and covered place protected from sun light and with temperatures above 5 °C.

IMPORTANT INDICATIONS

- Do not use for structural repair of concrete or foundations, placing of machinery, levelling or floor repair, neither for screeds or renders on walls. Use other more suitable **DRIZORO**[®] products for those applications.
- Do not mix **MAXBETON**[®] with lime, cement or gypsum.
- Setting times are measured at 20 °C. Lower temperatures and higher relative humidity increase these figures.
- For further information and other uses not specified in this Technical Bulletin, consult our Technical Department.

SAFETY AND HEALTH

MAXBETON[®] is non-toxic but it is an abrasive product. Protective rubber gloves and safety goggles must be used to mix and apply. In case of eye contact, rinse thoroughly with clean water for at least 15 min, but do not rub. In case of skin contact, wash affected areas with soap and water. If irritation continues, seek medical attention. For further information, Safety Data Sheet of **MAXBETON**[®] 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

Characteristics of the product		
Apperance	Grey powder	
Apparent density in powder (g/cm ³)	1,25	
pH	11,5	
Application and curing conditions		
Mixing water (% , by weight)	20 - 21	
Apparent density of hardened mortar (g/cm ³)	2,10	
Working time at 20 °C (minutes)	4 - 5	
Setting time at 20 °C (minutes)	7 - 10	
Time between layers at 20 °C (minutes)	5 - 6	
Characteristics for the cured product		
Mechanical strength	Flexural (MPa)	Compressive (MPa)
30 minutes	2,0	8,0
1 hour	2,2	10,5
3 hours	2,8	14,0
24 hours	3,2	17,0
3 days	3,5	22,0
7 days	4,0	28,5
28 days	5,5	35,0
Consumption		
Approx. consumption (kg/l)	1,8	

GUARANTEE

The information contained in this leaflet is based on our experience and technical knowledge, obtained through laboratory testing and from bibliographic material. **DRIZORO[®], 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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