



MAXMORTER®

F



MODIFIED CEMENT FOR PREPARATION OF QUICK SETTING MORTARS FOR MULTIPLE USES

DESCRIPTION

MAXMORTER® - F is a specially formulated concentrate, based on special cements and additives. that provides ideal properties for jobs which require quick putting into service of an element. The product can be used pure as supplied or it can be used as a concentrate, mixing it with sand (up to 3 parts of sand per each part of product), depending on the specific application.

APPLICATION FIELDS

- Masonry jobs where quick setting is of the essence and also fast placement into service. (1 part **MAXMORTER® - F** / 3 parts aggregate).
 - Rigid fixtures and elements submitted to immediate stress.
 - Sealing of cracks and placement of sills.
 - Fast partition jobs.
 - Decorative moulding jobs.
- Other repairs where not only a fast placement into service is required, but greater mechanical and chemical properties are required (1 part **MAXMORTER® - F** and 1-2 aggregate)
 - General repair works of foundations and concrete.
 - Column embedding.
 - Traffic wearing surfaces and industrial flooring.
 - Concrete placing and repairs in the presence of water.
 - Pre-cast elements.
 - Sea side jobs. (Repairs in between tides, ship caulking and other jobs

where quick setting and resistance to sea water are required).

- Dry method spray.
- Preparation of low porosity renders with very little water absorption.

ADVANTAGES

- Quick setting (even at low temperatures). Fast placement into service.
- Low shrinkage.
- High adhesion to concrete and reinforcements.
- Only requires mixing with water.
- Better chemical resistance to acidic, sulphated water and sea water than ordinary Portland cement.
- Good carbonation resistance.

APPLICATION INSTRUCTIONS

Preparation of the surface

Follow all general indications relative to the preparation and cleaning of the surfaces to be treated. The substrate must be clean, free from dust, loose particles, paints, grease, de-moulding agents, etc.

Dampen the exposed surface until saturated, without leaving excess water.

Mixing of the product

MAXMORTER® - F is mixed exclusively with clean water and free of contaminants, either manually or mechanically. It is strongly advised not to surpass the water / **MAXMORTER® - F** ratio of 0,4, for better mechanical properties. The proportions or aggregates required for each part of **MAXMORTER® - F** depend on the specific application and vary between 1 and 3 parts of aggregate for each part of product,

(the type and size of aggregate will also depend on the application but in any case shall be clean sand). Exceeding the above amounts may negatively affect mechanical resistance.

The pot life of the mix is between 5 and 10 minutes at a temperature of 20 °C and a ratio of aggregates of 1 part for each 3 parts of **MAXMORTER® - F**.

Mix each time only the amount of product that the applicator can apply depending on the type used, as once the pot life is passed the mortar will start setting and will no longer be workable.

Application

The application shall take place keeping in mind the usual recommendations for cementitious product application. (Do not add more water than necessary for the required application, follow the aggregate proportions indicated,

Conditions for applications

Do not apply below 2 °C - 3 °C or if lower ambient or substrate temperatures are expected within 24 hours of its application. Do not apply at temperatures above 35 °C.

Curing

Under extreme conditions of wind or heat, lightly spray water over the repaired areas for at least one hour. It is also advisable to cover them during the first 24 hours if the temperature is above 25 °C and the relative humidity is below 50%. Specific curing compounds can also be used such as our **MAXCURE** (Technical bulletin n° 49), for this purpose.

Under extremely cold weather, protect the repair with insulating material.

Cleaning

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

CONSUMPTION

It varies in terms of the dosification.

IMPORTANT INDICATIONS

- Do not mix using means that cause excessively violent action on the product nor exceed the mixing time as mechanical resistances and life expectancy of the repair can be negatively affected.
- Do not exceed the quantities of water recommended in the mixing.
- For any application not specified in this technical bulletin or further information is required, consult our Technical Department.

PACKAGING

MAXMORTER® -F is supplied in 20 kg bag, available in colour grey.

STORAGE

Six months in bags, in its original unopened packaging, in a dry covered place, protected from dampness and frost, with temperature above 5 °C.

SAFETY AND HEALTH

MAXMORTER® - F is non-toxic but it is an abrasive product. Protective rubber gloves and safety goggles must be used to prepare and apply the mixture. 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 **MAXMORTER® - F** is available by request.

Disposal of the product and its empty containers must be made by the final user and according to official regulations.

TECHNICAL DATA

| Product characteristics | |
|---|--|
| <i>CE Marking, EN 998-2</i> | |
| Description: Prescribed general purpose masonry mortar (G) | |
| Uses: external use in elements subject to structural requirements | |
| Apparent density in powder (g/cm ³) | 0,8 |
| Conditions of application and curing | |
| Mixing water (% weight / weight of prod.) | 40 ± 1 |
| Density of mix (kg / dm ³) | 2,150 ± 0,050 |
| Working time at 20 °C (minutes) | 6 – 10 |
| Initial setting at 20 °C (minutes) | |
| Initial | 8 |
| Final | 16 |
| Characteristics for cured product | |
| Flexural strength (MPa) | |
| 1 hour | 1,2 |
| 24 hours | 3,0 |
| 28 days | 5,5 |
| 3 months | 7,5 |
| Compressive strength (MPa) | |
| 1 hour | 8 |
| 24 hours | 20 |
| 28 days | 45 |
| 3 months | 60 |
| Reaction to fire | A1 |
| Water absorption | < 0,2 kg/m ² .min ^{-0,5} |
| Water vapour permeability coefficient | μ 15/35 |
| Bond strength | >0,5 N/mm ² – FP:B |
| Chloride content | ≤0.01% |
| Thermal conductivity | 0,83 W/mK |

For one part of **MAXMORTER® – F** and 1,5 part of aggregates, and a relation of water / **MAXMORTER® – F** of 0,4.

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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