



MAXMORTER® CAL-F

LIME FINE MORTAR FOR SMALL THICKNESS COAT AND SMOOTH FINISH UP TO 3 mm



DESCRIPTION

MAXMORTER® CAL-F is a lime-based mortar composed of calcium hydroxide, fine grain sized aggregates and special admixtures. It is specially designed to be applied on previous renders in order to provide a thin coat (1-3 mm) with smooth finish, suitable for indoor and outdoor applications.

APPLICATION FIELDS

- Decorative finishing with a smoothed and fine appearance on walls, ceilings and pillars, over previous cement-based renders such as **CONCRESEAL® PLASTERING** (Technical Bulletin No. 6) or lime-based renders such as **MAXMORTER® CAL** (Technical Bulletin No. 195), for historical areas, heritage buildings, shopping centres, hotels, residential complex, etc.
- Fine levelling coat with smooth texture, prior to finishing with glossy coating **MAXMORTER® CAL-GLAZE** (Technical Bulletin No. 229) as stucco works.

ADVANTAGES

- Permeable to water vapour, allows the substrate to breath, i.e., does not form a water vapour barrier.
- Does not contain cement. Suitable for non-structural substrates and weak masonry units.
- Salt-free composition does not promote expansive alkali reactions.
- Good workability and easy to apply.

APPLICATION INSTRUCTIONS

Surface preparation

Apply on previous levelled and even surfaces by cement or lime renders. Wait for 5-7 days curing time after lime-based mortars such as **MAXMORTER® CAL**. Do not apply directly on bricks, concrete blocks, or substrates without levelling.

Surface must be clean and free of paints, coatings, efflorescence, loose particles, grease, oils, curing agents, form release agents, dust,

organic growth, or any other contaminants that may affect to adhesion.

Once substrate has been prepared, dampen thoroughly the entire surface with clean water, avoiding the formation of puddles. If surface gets dry, proceed to dampen with water again.

Mixing

A 25 kg bag of **MAXMORTER® CAL-F** requires from 6,0 to 7,0 litres (24-28%) of water, depending on existing ambient conditions and desired consistency. Optionally, in order to improve adhesion, mechanical strength, curing and weathering resistance, a dilution based on 1 part **MAXCRYL®** and 3 parts by volume can be used as mixing liquid.

Pour the required amount of mixing liquid in a clean container and then slowly add **MAXMORTER® CAL-F** to mix, using a slow speed electric drill (400-600 rpm) fitted with a disc mixer, for about 2-3 minutes until achieving a lump-free and homogeneous mortar. Allow the mixture to rest for 3 minutes to fully wet out all the powder, and remix briefly before applying.

Application

Apply one layer of **MAXMORTER® CAL-F** with a thickness from 1 to 3 mm by using stainless steel or plastic trowel. Once mortar has started its initial setting-time, finish the surface to get the desired finish. At high temperatures and/or with wind, slightly wet the surface to facilitate its finishing procedures.

If used as base coat before finishing with glossy transparent coating **MAXMORTER® CAL-GLAZE** (Technical Bulletin No. 229), smooth surface successively with a stainless-steel trowel to obtain a perfectly smooth texture.

For outdoor jobs, once surface is fully dry after 5-7 days curing time and depending on the ambient temperature, apply a water-repellent siloxane protector such as **MAXCLEAR® -D** (Technical Bulletin No. 14) or **MAXCLEAR® TOP** (Technical Bulletin No. 114) for rain and weathering protection.

Application conditions

Do not apply when rain, contact with water, condensation, dampness, or dew is expected within the first 24 hours.

The optimum temperature range for application is from 10°C to 30°C. Do not apply with substrate and/or ambient temperature is at or below 5°C, or if temperature is expected to fall within 24 hours. Do not apply to frozen or frost-covered surfaces.

For applications at hot temperatures, low relative humidity and/or windy conditions, i.e., summertime (>30°C), substrate must be wet thoroughly with plenty of water and **MAXCRYL**® dilution used as mixing liquid. Avoid applications exposed to direct sunlight with high temperatures (>35°C).

Curing

At hot weather, windy and/or low humidity conditions with direct sunlight, prevent a quick-drying process of **MAXMORTER**® **CAL-F** keeping a moisture curing at least 24 hours after application, by using plastic sheeting, damp burlaps or spraying a fine mist of water, avoiding washing out the surface.

Allow **MAXMORTER**® **CAL-F** to cure for at least 5-7 days at 20°C and 50% R.H. before applying **MAXMORTER**® **CAL-GLAZE** or **MAXCLEAR**®-D / **TOP**. Lower temperatures and/or higher R.H. values increase the curing time.

Cleaning

All mixing and application tools must be cleaned immediately with water after use. Once product hardens, this can only be removed by mechanical means.

CONSUMPTION

Estimated consumption for **MAXMORTER**® **CAL-F** is 1,7 kg/m²·mm thickness.

This figure is for guidance only and may vary depending on porosity, texture, substrate conditions and application method. Perform a preliminary test on-site to ascertain the total consumption exactly.

IMPORTANT INDICATIONS

- Do not add cement, lime, additives, aggregates, or other compounds.
- Do not use leftovers from previous mixes.
- Observe the recommended consumption and maximum thickness per coat.
- For other uses not specified on this Technical Bulletin or further information, consult the Technical Department.

PACKAGING

MAXMORTER® **CAL-F** is supplied in 25 kg bags. It is available in white colour.

STORAGE

Twelve months in it unopened and undamaged original sealed packaging. Store in a cool, dry, and covered place, protected from moisture, freezing and direct sunlight, at temperatures above 5 °C.

SAFETY AND HEALTH

MAXMORTER® **CAL-F** is not a toxic product but is an abrasive composition. Avoid eye and skin contact and breathing dust. Use rubber gloves and safety goggles during application. In case of skin contact, wash affected area with soap and water. In case of eye contact, rinse immediately thoroughly with clean water but do not rub. If the irritation persists, seek medical assistance.

Consult the Material Safety Data Sheet for **MAXMORTER**® **CAL-F**.

Disposal of the product and its packaging should be carried out according to the current official regulations and it is the responsibility of the final user of the product.

TECHNICAL DATA

Product characteristics	
CE Marking, EN 998-1	
Description: Rendering and Plastering mortar of General Purpose (GP). Uses: Walls, ceilings, pillars, and partition walls in internal/external elements	
General appearance and colour	White powder
Maximum size of aggregate, (mm)	0,5
Density for powder, (g/cm ³)	1,3 ± 0,1
MAXCRYL®:water ratio for mixing liquid, (by volume)	1:3
Mixing water or mixing liquid, (% by weight)	26 ± 2
Application and curing conditions	
Minimum application temperature for substrate and ambient, (°C)	> 5
Pot life at 20°C and 50 % R.H., (min)	25 – 35
Curing time before application MAXMORTER® CAL-GLAZE or MAXCLEAR® -D / TOP at 20°C and 50 % R.H., (d)	5 – 7
Total curing time at 20°C and 50 % R.H., (d)	28
Cured product characteristics	
Density of cured mortar, EN 1015-10 (g/cm ³)	1,65 ± 0,10
Adhesion and break type, EN 1015-12 (N/mm ² - FP)	> 0,3 – B
Water absorption by capillary, EN 1015-18 (Class)	W 0
Permeability to water vapour, EN 1015-19 (μ)	< 20
Reaction to fire, EN 13501-1 (Euroclass)	A1
Thickness / Consumption*	
Thickness per layer, (mm)	1,0 – 3,0
Consumption (kg/m ² ·mm thickness)	1,7

* Consumption may vary depending on texture, porosity and other conditions for substrate, and application method. A preliminary test on-site will determine the coverage exactly.

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.U.** 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.



DRIZORO, S.A.U.

C/ Primavera 50-52 Parque Industrial Las Monjas
28850 TORREJON DE ARDOZ – MADRID (SPAIN)
Phone. +34 91 676 66 76 - +34 91 677 61 75 Fax. +34 91 675 78 13
e-mail: info@drizoro.com Web site: drizoro.com