

Data Sheet

Moulex

Moulex is a staff mortar for exterior works, traditionally made out the highest exterior quality gypsum plaster and fat lime.

Definition

Moulex is a gypsum and lime mortar, for molding and staffing works in workshop, suitable for manufacturing of exterior traditionnal works as cornices.

Field of application

Moulex is designed for the fabrication of staff pieces for exterior by molding. In particular, it is used to cast ornamental pieces for restauration of ancient facade (in studio or on building site), stripes, cornices, framings, badges, columns, pilasters, etc... (for bench-running works, use our *Tirex* mortar).

It carries on the tradition of high temperature exterior gypsum plasters, in combination with our plastering products, as *Enduit de Montmorency*, *Stuc Pierre*, *Plâtre Briard* or *Heritage Juss*.

Advantages

Moulex contains no sand nor contracts during the setting. Hence, it is possible to reproduce faithfully the finest details (moulding corners, rosettes...) of original gypsum and juss architecture as well cast, carved or chiseled.

What is more, issued from the high-temperature exterior gypsum and lime plaster tradition, *Moulex* can be used in exterior, mass-tinted, without paint, simply protected on the top, generally by zinc plate or stone plate, or brick work. After setting, *Moulex* re-carbonates itself to the air and forms a calcite surface conferring it resistance and hardness.

Its fast hardening (moulding complete cycle, including demoulding and cleaning, is generally less than 2 hours) allows great efficiency in work-shop.

Like all gypsum and lime plaster, *Moulex* has an exceptional capacity for the drying and sanitisation of ancient walls. Hence, it is particularly recommended for porous structure walls (cut stone, coralstone masonry, masonry using gypsum plaster, lime or sablon mortar, wood frame, adobe, ...).

Aspect and range

Moulex have the bygone skin qualities, light color and smoothness of the traditional juss and gypsum & lime plasters.

Moulex is manufactured and delivered premixed, with the exact selected color match.

Moulex is ready to be installed right after casting with a very smooth "cast-bottom skin". But it also can be sanded on surface to obtain a skin closer to stone or brick texture (compulsory for pieces subjected to weathering). A specific version is thereby available for *Stuc Pierre* process.

Note that classically *Moulex* is proposed in *short* version for studio casting, but a *long* version is also available in case of casting on building site.

Preparatory conditions on site

In any case, it is essential to carefully purge the former ornamentation (dig up with a pickax).The support must be clean, exempt of soot, bistre or efflorescence.

The support must be worked again, even, if necessary, enmeshed similarly to the original.

All non-visible wood material must be enmeshed as well as all heterogeneities on the support (mesh and galvanized points), before coating with *Enduit de Montmorency*, *Stuc Pierre*, *Plâtre Briard* or *Heritage Juss*.

Caution on conception

Streamlet-caused damages can be prevented using zinc works for any projections of more than 20 mm from the general level (for projection of less than 20 mm, the horizontal parts (top side) will offer a strong glacis). Particularly, the protections of walls exposed to dominant winds should be looked after.

Degradations by resurgence or plashing up, for example for the feet of pilasters, are avoided by a 50 cm high base-wall above ground and 8 cm above cornices, roofs, etc ...

Work-shop manufacturing

Moulex handling procedure is relevant of the staff and casting tradition.

The cast and molds can be in plaster, but by far preferably in elastomer. They are designed for the final piece be at least 25 mm thick (12 mm for interior use). Fiber can be used for reinforcement.

Because there is lime in the mix, it is imperative to wear gloves and protective glasses.

Moulex should not be applied in very cold temperatures (not below 5 °C), or on a frozen or thawing cast, nor above 35 °C or under direct sun. *Moulex* is mixed manually with a stick or mixer in a rubber container to the satisfying consistency. Accordingly the setting time varies from 15 to 30 mn.

Drying can be natural or forced. During this process, white efflorescences can appear : they will disappear by a simple brushing.

Then for esthetical reasons, or for outside use, the pieces can be :

- *lavé* : that is washed, with a medium soft brush, preferably right after demolding
- *sablé* : that is sand blasted at low pressure
- *décapé* : that is scrubbed with a metal brush
- or *poncé* : : that is sandpapered with 80 or 120 grade paper, when perfectly dry.

Note that this can be alternatively done on site, after installation.

Installation on location

Moulex installation is comparable to that of the staff tradition. Dual fixing (mechanical and by gluing) is highly recommended, taking into account the service charges (as person supporting during putting on or maintenance operations). For example, hull cast pieces must be filled after installation with our *Plâtre de renformi PG 30* or equivalent.

Concerning cornices, recommended laying in the case of mass- coloured pieces is a stone-joint of 10 mm. Joint material are made with tinted *Enduit de Montmorency* (ask us the *Moulex* color matching one) or white one (*ref: PFD 0*). In the case of installation with "sharp joints" ask us the lime-wash *Aquaforte*, matching the *Moulex* color.

Consumption

From 10 to 12 kg/m² by cm of thickness, according version.

Preservation and conditionning

6 months, away from humidity in a dry and clean storage room (in the original lined paper bags, on pallets with streamers).