

Data Sheet

Enduit de Montmorency

Enduit de Montmorency (i.e. render of *Montmorency*) is a lime and gypsum plaster, including sand or not, traditionally manufactured near Paris for the restoration of heritage buildings and decorative renders in new projects, in interior as well as in exterior

Definition

Enduit de Montmorency is a lime and gypsum plaster coating product, traditionally made with high temperature gypsum, for interior and exterior works.

Eventually, a sand which granulometry, color and density are chosen according to the desired results and texture, can be included. Then it can be named *Stuc de Montmorency*.

Field of application

Enduit de Montmorency was originally designed to renovate old buildings exterior walls and preserve their character.

These walls can be either homogeneous or composite (bricks, wood frame, nogged rag-stone with sablon mortar or lime, plaster debris, gypsum stone...).

Specifically, *Enduit de Montmorency* is the ideal solution to restore ancient building structures, originally plaster-coated .

It carries on the French tradition of renovation plaster coating.

On the other hand, due to its esthetic qualities, *Enduit de Montmorency* is more and more used on new high-end project. It can be applied on most of the supports, classical (blocks, concrete, bricks, etc ...) or more "green" (straw bales, hempcrete, earth blocks,)

It constitutes the base for *Stuc Pierre* and *Stuc Brique*. Ask us for more details.

It is also used for interior works. See our sheet *Enduit de Montmorency for interior work*.

Advantages

Enduit de Montmorency carries on the original techniques and functionings of heritage buildings.

Enduit de Montmorency has an exceptional ability to dry and sanitize old walls. Because of its unequalled breathing abilities, it protects all building elements against water damage (timber frame, tiles, rammed earth...) and ensures safety.

Therefore, it is particularly recommended for porous structure walls (cut stone, masonry coated with plaster, limestone or sablon mortar, wood frame, coralstone, ...).

The absence of shrinkage during the drying phase makes it easy and safe to use.

These lime and gypsum plasters are responding very well to the always possible movements in old structures. In addition, even if these movements are to cause some cracks, the porosity of *Enduit de*

Montmorency will prevent them from becoming infiltrating.
After setting, *Enduit de Montmorency* recarbonates to the air and forms a hardened calcite surface.

Aspect and range

Lime-plasters have the bygone skin qualities, light color and smoothness of the traditional coatings of France.

Enduit de Montmorency enables very smooth cut finishes, which are traditional in the Ile de France region. This type of finish is very resistant and don't get easily stained.

Stuc de Montmorency enables to realize scraped and sandpapered finishes : our large variety of sand granulometries and colors enables keeping up with the regional features. It'salso suitable for our *Stuc Pierre* process.

They both can be delivered premixed, with the exact selected color match.

Caution

Old masonry that needs to be coated must be protected from unwanted water infiltration (water sipping, backsplash and rising by capillary action). The covers, gutters, rainwater pipes, projection covers, cornices, supports, zinc works, weatherings and splashboards, must perform their usual function).

Special care has to be taken with protections on walls exposed to prevailing winds.

Damage caused by back splashing can be avoided by building a 50 cm or ~ 20 inch high base-wall.

Preparatory conditions

In all cases, it is indispensable to scarify the former coating at least 1 inch deep, to treat all support pathologies, then to thoroughly dust off. What is more, all support non-adhering elements must be suppressed.

The support must be clean, soot, bistre or efflorescence free.

The support must present a sufficient "scratch" surface for adhesion and good keying. The very deeply scarified parts must be wire-meshed and re-filled with identical material to the original.

All non-apparent wood elements must be wire-meshed before coating, as well as all surface heterogeneities (wire-lath and galvanized nails).

Instructions for implementation

Working with lime-plaster is a matter of following the rules of the art and our technical specifications.

For special cases or for additional information, please contact us.

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

Enduit de Montmorency should not be applied in very cold temperatures (not below 5 °C / 41 °F), or on a frozen or thawing support.

In hot weather, the coating needs to be protected from direct sun exposure while work is in progress and during the first days of drying (7 days). Do not apply the coating on very hot days or under

direct sun.

It is hand-mixed with the help of a mixer in a rubber container, or can be sprayed with a machine. It must form an homogeneous paste holding a load at least 30 mm (1 inch).

If necessary for rough work, *MG/PG mortars* are classically used. *Vieujot Heritage Mortar* or *Enduit de Montmorency* itself are also suitable.

Preferably the application should be done in one coat: otherwise apply successive layers from 3 to 5 cm (1 ¼ to 2 in.) thick, each one with cut finish.

Then *Enduit de Montmorency* is coated. This top layer must be 2.5 cm (1 in.) thick minimum. A straight edge can be used for this purpose.

One has about 2 hours to spread and float the product.

The setting occurs in the 2 or 3 following hours. The finishing usually begins in the afternoon when a peel comes off when passing a sharpened tool. The finish can be :

- *coupé* : that is scrubbed with a *berthelet* (a kind a specific French razor)
- *gratté* : that is scrubbed with a nail-board
- *lissé* : that is smoothed with a stainless steel tool (not for exterior works though).
- *décapé* : that is scrubbed with a metal brush
- *poncé* : that is sandpapered with 80 or 120 grade paper, when perfectly dry.

A special version (*Tirex*) with a shorter setting time (1/2 hour) is dedicated to specific works as for bench running of cornices. It cannot be sprayed.

Consumption

Enduit de Montmorency (without sand) : 10 kg/m² by cm of thickness (~ 5 lbs /sqft per inch. thick.).
Stuc de Montmorency : from 12 kg/ m² by cm of thickness (~ 6 lbs /sqft per inch. Thick.) 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).