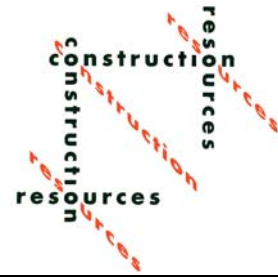


Construction Resources



TIERRAFINO BASE TECHNICAL SHEET T4

CLAY PLASTER

Tierrafino Base is a clay plaster suitable for use on all absorbent and prepared interior surfaces such as blockwork, brickwork, reedmats, plasterboard or concrete. Tierrafino Base gives a comfortable internal finish, which is warm in winter and cool in summer. It is a breathing surface, and can absorb fluctuations in temperature and humidity, sounds and odours.

ENVIRONMENT AND HEALTH ASPECTS

COMPOSITION

Tierrafino Base consists of natural materials like clay, sand and straw.

TOXIC INGREDIENTS

Contains no toxic ingredients and therefore gives no toxic off-gassing.

WASTE AND REUSE

Tierrafino Base sets mechanically, unlike gypsum plasters which set chemically. This results in the ability to rework the clay plaster in situ many times, and minimal waste as any leftovers can be re-used.

ENERGY

Minimal energy is used in its manufacture.

LIFETIME

With appropriate care Tierrafino Base can last indefinitely. Any damage can easily be repaired by reworking or by the local application of fresh Tierrafino Base.

HUMIDITY CONTROL

Tierrafino Base assists in balancing humidity levels.

BIOLOGICAL ASPECTS

Tierrafino Base, like all natural dry clays, prevents the formation of fungi.

PHYSICAL PROPERTIES

The raw materials are clay, sand and straw, which are mixed together mechanically to form a powder (grains between 0 - 5mm and straw 30mm) of density 1200kg/m³ when loose and 1650kg/m³ when mixed with water and applied.

DAMP AREAS

Suitable for use in atmospheres of high humidity. However the surface will be damaged if subjected to a stream of water, and should not be used on excessively wet walls such as those found in cellars.

Tierrafino Base is therefore suitable for use in kitchens and baths rooms so long as it is out of regular splash range.

FLAMMABILITY

Non-combustible.

FIRE RESISTANCE

A 28mm overall thickness of clay plaster, applied to reed matting, has a fire resistance of 125 minutes according to Dutch Standard 6069.

LINEAR EXPANSION	:	12 x 10 ⁻⁶ m/mK
THERMAL CONDUCTIVITY	:	λ = 0.91 W/mK
THERMAL CAPACITY	:	c = 1 kJ/kgK

PREPARATION AND APPLICATION

STORAGE

In 25kg polyethylene sacks, in a dry place.

PREPARATION OF SURFACES

Surfaces should be sound, dry and free of grease. Tierrafino Base relies solely on mechanical key for adhesion and this fact should always be borne in mind when choosing a background.

Apply Tierrafino Base as a plaster to blockwork, brickwork or reed mats. Smoother surfaces such as plasterboard and concrete should be prepared using Tierrafino Contact. (see Fact Sheet)

COVERAGE

Between 1.5 and 2 m² per 25kg bag

APPLICATION

Add contents of 25 kg bag of Tierrafino Base to 4 to 5 litres of water and mix to a workable consistency.

The minimum temperature for application is 5 °C. Apply in the normal way with a steel float.

First coat: approximately 10 mm, rough finish, for example with a tooth spatula

Second coat: approximately 10 mm, smoother finish. Now Tierrafino can be applied.

Once mixed Tierrafino Base will remain 'live' for days therefore for time can be saved by mixing up in bulk.

REPAIRS

As previously stated Tierrafino Base is a clay-based product which means it undergoes only a dehydration set. This means that it can be softened or *brought back* and re-worked at any time. This property is extremely useful when it comes to making repairs.

TOOLS

Normal plastering tools.

DELIVERY

SUPPLIERS

Construction Resources, 16 Great Guildford St, London SE1 0HS.

Web page: www.ecoconstruct.com. Email: info@ecoconstruct.com.

Tel 020 7450 2211. Fax 020 7450 2212

DELIVERY TIME AND COSTS

Dependant on stock levels and order size, normally three days from receipt of order. Delivery from £40.00 + VAT per pallet.

PACKING

Supplied in 25kg sacks on Euro pallets; 40 sacks per pallet (1 tonne).

SPECIAL NOTE

Tierrafino Base is a specialist plaster applied using techniques that differ slightly from those employed for conventional gypsum. Therefore it is essential these instructions are passed on to the applicator. Failure to do so could result in poor product performance for which Construction Resources cannot be held responsible.

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