

# Tradical® PF 80

Aerial lime binder pre-formulated for rendering and pointing  
Complies with the French Building Code (DTU 26.1 and 20.1)



## Definitions and areas of use

→ Tradical® PF 80 is a binder based on aerial lime (85%), hydraulic binders (15%) and mineral fillers, suitable for mixing with aggregates (sand) and water to use in soft stone masonry and to form a traditional base coat, brown coat and single-mass render and for repointing on old substrates in compliance with the French Building Code (DTU 20.1, sections 2.2 and 4.21, DTU 26.1, section 11).

→ Tradical® PF 80 has water repellent properties.

## → STORAGE

Store in its original bag (20 kg) in a sheltered place. Tradical® PF 80 binder can be stored for 12 months.

## → DESIGN OF STRUCTURES AND APPLICATION

Refer to the French Building Code in force for the type of structure.

- Masonry: DTU 20.1, sections 2.2 and 4.21
- Render/Repointing: DTU 26.1, section 11

## → SUBSTRATES

For renders, moisten the substrate the day before until the saturation point is reached. Re-moisten if required and leave to dry.

Do not apply to frozen, thawing, overheated or streaming substrates.

The substrates must be suitable as per the specifications.

## → PREPARATION

Mix the sand according to the proportions listed in the relevant technical guide, without adding any hydraulic binders. Then mix to form the desired consistency by adding clean water.

Mix for 3 to 5 minutes in a concrete mixer.

## → APPLICATION

Apply at a temperature of between +5 °C and +35 °C, away from sunlight, strong winds, and heavy rainfall.

Mechanical application or by pneumatic projection:

- Refer to the material manufacturer for the amount of sand to use.
- Apply in the same manner as a traditional mortar.

## → MIX PROPORTIONS

The mix proportion of binder in relation to sand depends on:

- a) the type of structure rendered, and
- b) the sand used (particle size distribution, type, and moisture content)

As a rule, the measure of binder is:

- 200 to 300 kg per m<sup>3</sup> of sand (moisture of less than 5%).
- or by volume: 1 part binder to 2 to 3.5 parts sand

**Can be used as a thin mix or a pure paste**

## → MISCELLANEOUS

- Testing

Each production batch is lab-tested. A sample is stored and the corresponding reference is noted on each bag.

- Guarantee

Within the scope of the company's civil liability insurance. Manufacturer's civil liability, SMABTP contract: ALPHA-BAT Fabricants no. 512806 E.

### Performance

Coefficient of thermal conductivity $\lambda$	$\leq 0.18$
Density	$= 0.57 \pm 0.02$
Soluble silica (hydraulicity)	$\leq 7.2\%$
CO <sub>2</sub> content	$\leq 13\%$
Additives (organic colloids and surfactants)	$< 0.8\%$
Water retention	$\geq 73\%$
Particle size distribution	$\leq 90 \mu\text{m}$
Pulling/bending	$\geq 0.3 \text{ N/mm}^2$
Compression	$\geq 1 \text{ N/mm}^2$

Tradical® PF 80 includes

### Tradical® "Masonry and Rendering with lime"

- Tradical® PF 55
- Tradical® Maçonner
- Tradical® Bâtir
- Tradical® PF 80 M
- Tradical® PF 80 Teinté
- Tradical® PZ
- Tradical® Premium Naturel



**Lhoist Southern Europe**  
BCB

ZAC de Valentin - BP 3011  
25045 BESANÇON cedex  
Tél. + 33 (0)3 81 47 40 10  
Fax + 33 (0)3 81 47 40 19  
contact@bcb-tradical.com  
www.bcb-tradical.com