

# Tradical® Bâtir

## Formulated lime for traditional renders and masonry



### Definition

Tradical® Bâtir is mixed with aggregates (sand) and water to produce traditional mortars for masonry work and rendering.

### Identification

Tradical® Bâtir is a Class FL A 3.5 formulated air lime according to standard NF EN 459

### Areas of use

Tradical® Bâtir is used in:

- Mortars for laying all types of natural stone, rubble stone, bricks, briquettes and so on
- Traditional base and brown coats

### → POSSIBLE STRUCTURES

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

- Masonry: French Building Code (DTU 20.1)
- Base and brown coats: French Building Code (DTU 26.1)

### → PREPARING THE STRUCTURES

For base and brown coats, substrates must be:

- suitable and comply with the French Building Code (DTU 26.1)
- moistened until saturation point the day before, re-moistened if required, and left to dry

### → PREPARING THE PRODUCT

Mix the sand according to the proportions listed in the mix proportion table, 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

In compliance with the French Building Code (DTU 26.1 and 20.1)

#### • Mix proportions

Adjust the mix proportion according to the hardness of the material to be laid or the substrate to be rough-rendered and prepared. The proportion of lime in relation to sand depends on:

- the type of work to be done, and
- the sand used (particle size distribution, type, and moisture content)

Tradical Bâtir® includes:



#### Masonry / Rendering

- Tradical® PZ
- Tradical® Masonry / PF 55
- Tradical® Bâtir
- Tradical® PF 80 / 80 M / 80 Coloured
- Tradical® Premium Naturel



**Lhoist Southern Europe**

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	Bag of lime 	+	0/4 sand 10 l bucket 
<b>Masonry</b>			
Hard substrate	1	+	6 to 8
Firm substrate	1	+	8 to 10
Soft substrate	1	+	10 to 12
Very soft substrate	1	+	11 to 13

For further information visit our website  
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## → APPLICATION

In compliance with the French Building Code (DTU 26.1 and 20.1)

	Base coat		Brown coat		Base coat		Brown coat		
	Bag of lime Tradical® Bâtir	0/4 sand 10 l bucket	Bag of lime Tradical® Bâtir	0/4 sand 10 l bucket	Bag of lime Tradical® Bâtir	0/4 sand 10 l bucket	Bag of lime Tradical® Bâtir	0/4 sand 10 l bucket	
Hard substrate	1	+	5 to 6	1	+	6 to 7	1	+	5,5 à 6,5
Firm substrate	1	+	6 to 7	1	+	6 to 7	1	+	5,5 à 6,5
Soft substrate	1	+	6 to 7	1	+	7 to 8	1	+	6 à 7
Very soft substrate	1	+	8 to 9	1	+	9 to 11	1	+	6 à 7

### Mechanical or pneumatic projection:

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

### Atmospheric conditions

Apply at a temperature of between +5° and +35°C, away from sunlight, strong winds and heavy rainfall. Do not apply to substrates that are frozen, thawing, overheated or running with water.

### IMPORTANT

- For plinths: Tradical® Bâtir + sand must not come into contact with the soil. Use Tradical® PZ + sand up to a height of at least 20 cm from the base of the plinth (see corresponding Tradical® documentation).
- When saltpetre is present: use Tradical® PZ as an undercoat for masonry as well as brown coats (see corresponding Tradical® documentation).

Please note that although Tradical® PZ is used to prepare mortars resistant to salts, nitrates, etc. present in capillary rises, the source of these rises also needs to be treated appropriately.

## → GENERAL INFORMATION

### Qualifications

Only qualified persons with a sound knowledge of traditional lime renders should use Tradical® Bâtir + sand.

### See also

- Tradical® brochures and technical data sheets
- Relevant French Building Code (NF DTU)

### Packaging and storage

Tradical® Bâtir comes in a 20 kg bag and can be stored for one year away from moisture.

**Testing:** under the conditions prescribed by standard NF EN 459.

### Guarantee

Within the scope of the company's civil liability insurance. Manufacturer's civil liability, SMABTP contract:  
ALPHA-BAT Fabricants no. 512806 E 1004.000

Tradical Bâtir® includes:

#### Masonry / Rendering

- Tradical® PZ
- Tradical® Masonry / PF 55
- Tradical® Bâtir
- Tradical® PF 80 / 80 M / 80 Coloured
- Tradical® Premium Naturel



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# Tradical® Bâtir

## Formulated lime for Tradical® hygrothermal render



Characteristics	
Mass density	500 kg/m <sup>3</sup>
Thermal conductivity	$\lambda = 0.11$ to $0.15$ W/m.k
Compression strength	0.58 MPa (after 60 days) 0.61 MPa (after 90 days)
Elastic modulus	50.3 MPa (after 60 days) 62.6 MPa (after 90 days)
Fire resistance rating for the Tradical® Bâtir + Chanvribat® blend	<b>A2-s1, d0</b>

Tradical Bâtir®  
includes:

#### Tradical® Hempcretes

- Tradical® PF 70
- Tradical® Thermo
- Tradical® PF 80 M
- Tradical® Bâtir
- Chanvribat®
- Tradical® Premium Naturel



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#### Definition

Tradical® Bâtir is mixed with the plant-based Chanvribat® aggregate (Granulat Chanvre Bâtiment certified) and water to produce hygrothermal renders with insulating properties.

#### Identification

Tradical® Bâtir is a Class FL A 3.5 formulated air lime according to standard NF EN 459. The Tradical® Bâtir + Chanvribat® blend is approved and complies with the French Professional Rules for the Construction of Hempcrete Structures.

#### Areas of use

Tradical® Bâtir + Chanvribat® can be used indoors and outdoors, on all kinds of clean and sound mineral substrates and on Tradical® hempcretes. It can be applied as an insulating wall or lining in houses or apartment buildings, tertiary and public buildings, and so on.

### → POSSIBLE STRUCTURES

Tradical® + Chanvribat® hygrothermal render is applied in compliance with:

- French Professional Rules for the Construction of Hempcrete Structures: section on Render Application
- Tradical® documentation

### → PREPARING THE STRUCTURES

Substrates must be:

- suitable and comply with the French Building Code (DTU 26.1) and Tradical® documentation
- moistened until saturation point the day before, re-moistened if required, and left to dry

### → PREPARING THE PRODUCT

#### Mixing method

Mixing can be performed in a concrete mixer. Add the following in this order:

- All of the water
- Tradical® Bâtir, mixing until a homogeneous paste is obtained (3 to 5 mins)
- Chanvribat®, mixing slowly until all aggregates are entirely and evenly coated, adjusting the quantity of water if necessary

Let the mortar rest before applying it. This gives it better adherence.

The consistency of the mortar can be adjusted by adding water progressively, as and when it is used, depending on application conditions (substrate, desired thickness, speed of execution, atmospheric conditions, etc.).

#### Quantity required for one batch of Chanvribat®

Qty of water	Qty of Tradical® Bâtir	Qty of Chanvribat®
100 to 110 l	4 bags	1 bag

### → APPLICATION

The render must be applied in accordance with the relevant reference documents. Tradical® Hemp Renders may be applied to a base coat and are suitable for indoor and outdoor use.

**Base coat:** prepared with Tradical® Bâtir + sand (mix proportions depend on the type of substrate, see technical data sheet) or Tradical® Bâtir + Chanvribat®:

Lime	Aggregate mix proportion
1 bag Tradical® Bâtir	+ 60 to 70 l of 0/4 sand, for manual application on soft or firm substrates + 50 to 60 l of 0/4 sand, for manual application on hard substrates
1 bag Tradical® Bâtir	+ 55 l of 0/4 sand, for mechanical application on soft substrates + 50 l of 0/4 sand, for mechanical application on firm or hard substrates
4 bags Tradical® Bâtir	+ 1 bag of Chanvribat®

# Tradical® Bâtir

## Formulated lime for Tradical® hygrothermal render

### Lime + aggregate blend approved by the *Construire en Chanvre* association

The Construire en Chanvre association has approved the Chanvribat®+Tradical® Bâtir blend as meeting the threshold performances measured in certified external laboratories, as required by the French Professional Rules.

### Test reference details

CRDA test no. 2014-07-02 report:  
BCB Tradical® Bâtir+Chanvribat® render  
formula dated 14 11 2014

### Hygrothermal brown coat

- This coat is applied at least 48 hours after applying the base coat.  
Then continue as per the relevant reference documents.

Note:

- Use a trowel or finishing trowel to apply successive coats of 2 to 4 cm, waiting for each coat to start setting before applying the next (20 to 60 mins depending on conditions).
- Smoothen using a float or darby if required.
- Leave to set and then use the float to achieve the desired finish.

**Mechanical projection:** refer to the material manufacturer.

### FINISHING

**Interior render:** Depending on the desired finished appearance, a Tradical® Bâtir + Chanvribat® brown coat can be kept as is or coated with:

Lime	Mix proportion
Tradical® PF 80 M	+ 50 to 70 l of 0/2 or 0/4 sand
Tradical® PF 80	+ 90 to 100 l of 0/4 sand, for manual application
Tradical® PF 80	+ 60 to 70 l of 0/4 sand, for mechanical application
Tradical® Décor	
Tradical® Lait de Chaux	applied 'a secco'.

**Exterior render:** Tradical® Bâtir + Chanvribat® exterior renders must be finished with traditional lime render such as:

Lime	Mix proportion
Tradical® PF 80 M	+ 50 to 70 l of 0/2 or 0/4 sand
Tradical® PF 80	+ 90 to 100 l of 0/4 sand, for manual application
Tradical® PF 80	+ 60 to 70 l of 0/4 sand, for mechanical application

**Atmospheric conditions:** Apply at a temperature of between +5° and +30°C, away from sunlight, strong winds and heavy rainfall. Do not apply to substrates that are frozen, thawing, overheated or running with water.

### IMPORTANT

- For plinths: Tradical® Bâtir + Chanvribat® must not come into contact with the soil. Use Tradical® PZ + sand up to a height of at least 20 cm from the base of the plinth (see corresponding Tradical® documentation).
- If there is efflorescence or rising damp, substrates must be coated with a Tradical® PZ + sand render (see technical data sheet) before any hygrothermal render is applied.

*Please note that although Tradical® PZ is used to prepare mortars resistant to salts, nitrates, etc. present in capillary rises, the source of these rises also needs to be treated appropriately.*

## → GENERAL INFORMATION

### Qualifications

Only qualified persons with sound knowledge of hempcretes, or persons who have passed the BETONS DE CHANVRE or ENDUIT DE CHANVRE module in the BCB training programme, may use Tradical® Bâtir + Chanvribat®.

**See also:** Tradical® brochures and technical data sheets / French Professional Rules for the Construction of Hempcrete Structures / Relevant parts of the French Building Code (NF DTU)

### Packaging and storage

Tradical® Bâtir comes in a 20 kg bag and can be stored for one year away from moisture.

**Guarantee:** Within the scope of the company's civil liability insurance. Manufacturer's civil liability,

SMABTP contract: ALPHA-BAT Fabricants no. 512806 E 1004.000



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