

# i.design

# MONOLYS

## *Internal plasters on hemp*

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*Natural hydraulic lime improves the hygrometric exchanges inside walls and reduces rising damp. On hemp, this function is particularly important.*

*i.design MONOLYS has been first developed for such type of substrates with hemp (shuttering, lime and hemp renders). It's a one coat render and applied manually or mechanically.*

### Preparation

#### Mixing time:

Minimum 5 to 7 min in a mixer and in a pumping machine

#### Settings:

Pumping machine:

- Jacket pressure : 10 bars
- Nozzle diametre : 12 mm

### Mortar design

- Introduce a small amount of water in the mixer to clean the preceding mix
- Introduce i.design MONOLYS and the rest of the water in the mixer
- Mix 5 to 7 minutes to obtain a perfect homogeneity without any lump or pellet

### Preparation of the substrate

- Clean the substrate
- If necessary fill in the holes with i.flow ALI FLASH or with a mortar of lime and cement
- On chases, use PRIMER SAN TOMMASO and apply a layout-grid. Make the same on each connexion between two materials (different porosities)
- Wet the substrate
- In presence of gypsum, apply first PRIMER SAN TOMMASO
- In case of connection between two different materials, openings or chase: apply a join tape (armed if necessary).

### Application

- For a mechanical application, grease the pipes with i.design MONOLYS prepared as a lime slurry

#### Mechanical application

- Apply i.design MONOLYS in two layers (total thickness: 10 to 15 mm)

#### Manual application

- Apply i.design MONOLYS with a float or a Swiss float
- Dress with a float and immediately add i.design MONOLYS where it is necessary (holes for example)
- For the corners, use a special float (for corners) or a rabbet plane

### Choice of finish

It's possible to realize the finishing aspect 1 h 30 to 2 hours after the application.

#### Sponged

- Gives to the plaster a rustic aspect. Use a sponged float

#### Smooth

- Use a sponge float then a float to create a gypsum aspect

#### Floated

- Use a wooden float or a plastic or polyurethane float



## Indicated quantities

4.3 to 4.7 Litres of water by bag of 25 kg of i.design MONOLYS

## Indicated consumption

(kg/m<sup>2</sup>/cm of thickness)

6 to 7 kg of i.design MONOLYS for 1.1 to 1.2 L of water

## Why use a lime mortar?

- Well proven since many centuries, lime is now well known as the most suitable binder for the realization of renders
- Lime protects all types of supports. It can be removed without damage. That's why lime is recommended in restoration
- Lime is a natural and eco-friendly product
- It allows movements of the buildings and avoids cracks inside the walls
- During and after the set, lime mortars are permeable to air and waterproof. They allow the evaporation of the water and the walls "breathe"
- Lime mortars are easy to colour to obtain almost all the desired colours
- Finally lime mortars are easy to apply and sticky for a good adhesion.

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