

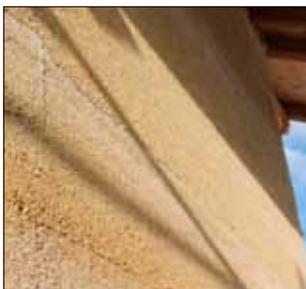
MAKE A CONCRETE HEMP



Tools needed



Hemp



Concrete wall hemp

- DOSING MATERIAL :

- **Wall** : 45 liters water + 30 kg slaked lime + 50 liters hemp

- **Ground** : (About 10 to 15 cm thick) : 65 liters water + 35 kg slaked lime + 10 kg natural hydraulic lime (for faster plug) + 200 liters hemp

- SUPPORT :

Clean and wet the support one day before the application of hemp concrete on the wall or on the floor. In the case of a slab, a layer of stones (pebbles) comes stabilize the soil (catching support).

- APPLICATION :

It is advisable to oversize the mixer because the volumetric strain of hemp is more important than that of cement and sand.

Start with a little water into the mixer, then slaked lime and hydraulic lime before mixing. Once smooth paste, add the hemp and continue mixing until a soft consistency of the whole.

- **Ground** : Put the hemp concrete at once into the form previously installed and compacted using a piece of wood. Remove formwork after 4 days at least, depending on the thickness of the screed and season. Complete drying can take 1 month (summer) or 2 months for cold seasons.

- **Wall** : Place on wall with machine or trowel. When the hemp concrete has hardened slightly (a few hours depending on the temperature), it will be possible to perfectly smooth or otherwise scrape gently to give it a grainy. Like all mixtures of lime, it is possible to tint before applying with pigments. Try on a small area and wait for a perfect drying to specify the color (a few days).

One of the characteristics of hemp concrete is its acoustic insulation power (walls) and thermal. More base mixture will contain hemp, more it will be insulating and it will be less heavy. Concrete slabs of hemp are compatible with underfloor heating.

However there's some limitations: the hemp concrete can't receive a charge and it will be necessary to provide a framework for that. It is also unrecommended to apply a hemp concrete slab on wet ground without further lower layer to play as an insulator.



Hemp concrete slab