ECO PERFORMANCE

BUILDING WITH HEMPCRETE

- MIXING: Combine water and Ecologic™ Hempcrete Binder to form a milky paste. Add in the hemp hurd and mix until the hurd is completely coated.
- SHUTTERING: Construct temporary formwork around the timber framing to create a void for the hempcrete infill. Work in sections no more than 3' high. Maintain a minimum of 3" of hempcrete encasing the framework in single stud applications.
- PLACING: Pour the hempcrete into the shuttered void in 4" to 6" layers at a time. Spread the hempcrete to ensure that it's level, evenly distributed, and has good contact with the framing.
- TAMPING: Use a wooden tamper to pat down and compress the hempcrete to half the layer depth. Do not over tamp.
- LIFTING: After the void is filled, use a sliding motion to remove the shuttering. Reset the shutters to form the next lift.

For other application methods, contact Lime*Works*.us.

IN THE MIX

Our Ecologic™ Hempcrete Binder is a pozzolanic hydraulic lime that is mixed with industrial hemp hurd and water to create a lightweight, high performance insulation for walls, ceilings, and floors.

A 50 pound bag of Ecologic™ Hempcrete Binder is mixed with approximately 33 pounds of dry hemp hurd and will yield about 4.5 cubic feet of hempcrete infill.

HEMPCRETE

SUSTAINABLE BUILDING

deGruchy's LIME WORKS™.us

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MATERIALS FIT FOR PURPOSE

GET YOUR HEMP HURD ON

INDUSTRIAL HEMP

The hemp plant is a renewable global resource that can be utilized to make thousands of goods. The bast fibers and woody stalks are used in construction materials, clothing, carpeting, paper, and biofuel while the seeds and flowers can be found in vegetable oils, organic body products, and health foods.

A durable and sustainable building material, Hempcrete is a biocomposite made of the inner woody core of the hemp plant mixed with a lime-based binder and water. The hemp hurd has a high silica content which allows it to bind well with lime. The result is a lightweight infill material ideal for most climates since it combines insulation and thermal mass. Hempcrete is not used as a structural element; all loads are carried by internal framing. However, as insulating infill between the frame members, hempcrete provides an energy savings of up to 60 percent when combined in floor, wall, and ceiling applications.

BENEFITS

- Mold, pest, and rot resistant.
- Non-toxic and free of VOCs.
- Exceptionally fire-resistant.
- Carbon sequestering and recyclable.
- Provides optimal indoor air quality and energy efficiency.
- Adaptable for specialty design features like archways and curves.
- May be finished with protective, breathable coatings like lime plaster or external lime render.
- Typical R Value range is 1.17 to 2.4 R per inch. Results may vary based on the mix, design, and application method.

FAMILY TIES

While hemp and marijuana are both part of the Cannabis family, hemp is completely different in cultivation, application. and function. Additionally, unlike marijuana, the psychoactive content (THC) of industrial hemp is less than 0.3 percent.

Hempcrete is an ideal infill for additions, remodels, retrofits, and new construction from tiny houses to industrial warehouses.

LW

BRING HOME THE BASICS OF BUILDING WITH ECOLOGIC™ HEMPCRETE BINDER