



ecologic[®] PLATINUM^{*} HempCrete Binder

High Quality Lime Binder for Rigid Nonstructural Hempcrete Insulation For Professional Masonry Restoration and Sustainable Building Systems

ENVIRONMENTAL REQUIREMENTS

Handle and store bags to protect from damage and moisture. Reseal opened bags as soon as possible and store in dry conditions. Take precautionary measures to assure that excessive temperature changes do not occur. Do not install hempcrete unless the ambient temperature is between 40°F and 85°F for a minimum of 24 hours prior to application and 72 hours afterwards. Protect fresh hempcrete from frost, rain, and strong direct sun using tarps hung outside of scaffolding.

GENERAL APPLICATION FOR WALLS

For timber-framed walls with vertical spacing of timbers over 24" apart, attach 2" x 2" wooden battens horizontally at the middle of each bay with a spacing of 2' on center between battens. The first batten should be placed one foot above the base of the wall. This will create a ladder-like support structure in the interior bay of the hempcrete wall. Construct shutters no more than 3' high, allowing for the required thickness of the final stucco or plaster between the timbers (1/2" to 7/8") by keeping shuttering between where timbers will show to receive the material to a flush surface. Place the hempcrete inside the shuttering in layers of 6" and compact down to approximately 4" before adding the next layer of hempcrete. Once the first level is completed, using a sliding motion, remove the shutters exposing the newly placed hempcrete wall. Reset the shutters for the next level by placing the bottom of the shutter 6" below the previously tamped hempcrete.

For traditionally framed studded walls 16" to 24" on center, construct shutters no more than 3' high allowing for the required thickness of the final stucco or plaster between the studs (1/2" to 7/8") following the same instructions as above. Studs should be totally encased by the hempcrete with a minimum thickness of 2 3/4". Place the hempcrete in layers of 6" and compact down to 4" as for timber-framed walls. Pipes, plugs, electrical conduit, etc., should be positioned previously or as the work progresses. Lime render (stucco) should have movement joints installed every 144 square-feet to meet codes.

For hempcrete spray applications or installation of stronger horizontal subfloors or weaker horizontal attic insulation, contact the LimeWorks.us technical support team.

MIXING

For applications of nonstructural hempcrete insulation installed in wall cavities, add a 33 pound bag of Ecologic[™] Platinum HEMP HURD to 11 gallons of clean, potable water. Mix using a 6 to 9 cubic-foot concrete barrel mixer. When completely combined, slowly

add one 50 pound bag of Ecologic[™] Platinum HempCrete Binder. Mix for an additional 3 to 5 minutes adding up to 1 more gallon of water. The mix consistency is correct when the hempcrete can be compacted into a ball, retaining its shape when viewed open-handed.

WORKING TIME

Mix and use immediately. The working time ranges from 6 to 8 hours. Discard any unused mixed material that has been sitting longer than 8 hours.

CURE TIME

Shuttering can be removed after the hempcrete is tamped. Sheltering coats of Ecologic[™] Plaster TAKCOAT[®] Platinum and Ecologic[™] Plaster TOPCOAT[®] Platinum should be applied after the wall reaches a moisture content of 15% to 20%, waiting 3 weeks as a minimum.

AVERAGE COVERAGE (50 POUND BAG)

Yields approximately 4.5 cubic feet of hempcrete per one 33 pound bag of Ecologic[™] Platinum HEMP HURD and one 50 pound bag of Ecologic[™] Platinum HempCrete Binder. Hempcrete is not recommended for constant damp or below grade applications where dampness persists.

SHELF LIFE

8 to 12 months if kept sealed and stored in a cool dry place and away from moisture.

SAFETY

May cause eye and skin burns. In case of contact with skin or eyes, flush with water for 15 minutes and contact a physician. Dust inhalation may cause coughing, sneezing, irritation, and inflammation of the upper respiratory tract. Wear protective clothing, including goggles and a dust mask, to avoid prolonged contact. Harmful if swallowed.

DISPOSAL

Sweep and place bulk material in containers and properly remove for disposal. The final, cured product is not hazardous. Dispose of in a landfill following all local, state, and federal regulations.

FOR ADDITIONAL INFORMATION

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50 lb (22.67 kg)

WARNING Exposure to very high air concentrations of free silica can cause an acute form of silicosis that may occur within one year after exposure begins. This condition may be fatal.

limeworks.us/wp-content/uploads/Hempcrete-SDS-1.pdf

