



H₁ BINDER™

All Purpose Hemp Binder

consists of a non-hydraulic, high pH, high calcium, high surface area, fully carbonating lime, and other natural ingredients. Contains no portland cement, natural cement, gypsum, latex, gum binders, casein, or sand. VOC free.

BASIC USE

FOR HEMP: Use as a binder when mixing with hemp hurd in the making of hemp blocks and hemp shuttering infill. The high pH of the lime will prevent mold, mildew, and biological growth while the hemp is drying. When mixed with hemp hurd it provides a self-healing, permeable and insulative result. Hemp blocks and hemp infill have an R value of approx 2.4 per inch depending on the density of the installation. They also provide the benefits of thermal mass. Fire and insect resistant!

Hempcrete is not recommended for use in consistently wet/damp locations or below grade. When properly covered with lime plaster and limewash made from this same binder, it will perform perfectly in normal weather conditions. Normal moisture/humidity are beneficial to its longevity.

APPLICATION GUIDELINES

MIXING: Mixing with a hoe in a tub will work, a top loading vertical shaft mixer is the most thorough mixer to use.

Combine two bags of H-1 Binder with 33 lbs of loose high quality hemp shiv. Add 10-11 gallons of water. Mix 8-10 minutes

Depending on temperature and humidity the binder/hemp mix may dry. Add water as needed to achieve a mix that holds together in a baseball shape when squeezed. Install the damp hempcrete in approx 6" layers. Compact to approx 4" thick before adding the next layer.

WORKINGTIME: Install immediately after mixing.

YIELD: 50 lbs. of H-1 Binder and 33 lbs. of hemp will yield approx. 4.5 ft³ of hempcrete.

APPLICATION GUIDELINES

MORTAR/BASECOAT PLASTER: Mix a 25 lb. bag of H-Binder with 150 lbs. of concrete sand. Add water to the desired consistency. Install as per instructions for either mortar or basecoat on the Lancaster Lime Works website. Scan appropriate QR code.

INSTALLATION INSTRUCTIONS

MORTAR:



BASECOAT PLASTER:



SAFETY/HEALTH: CAUSTIC! ALWAYS WEAR EYE AND SKIN PROTECTION WHEN HANDLING. WEAR APPROPRIATE SAFETY GEAR AND MINIMIZE SKIN CONTACT. PROTECT FROM INGESTION OR INHALATION. WEAR A DUST MASK. ALWAYS KEEP WHITE VINEGAR ON SITE TO NEUTRALIZE LIME.



Lancaster
Lime Works

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