

HERITAGE HYDRAULIC LIME STUCCO/PLASTER

Product Highlights

Heritage Hydraulic Lime Stucco/Plaster is a dry material with aggregate preblended into the product. The product is applied in two coats packaged as a base coat and a finish coat, and it is ready to use with only the addition of water needed at the site before application. This product is a traditional material made from 100% all-natural ingredients, and it is breathable and flexible. Hydraulic lime is distinguished from non-hydraulic lime by its ability to cure in damp/wet conditions. It is suitable for historic masonry that may be exposed to high moisture levels or extreme conditions, and it is also recommended for sustainable new-build projects and strawbale construction, which rely on breathable, all-natural construction materials.

A two-coat application is recommended for exterior stucco work with an overall thickness of approximately 5/8" (15 mm) with a base coat 3/8" (10 mm) and a finish coat of 1/4" (6 mm).

Recommended Uses

Recommended for exterior stucco work on historic buildings and also for sustainable new-build projects. Hydraulic stucco is suitable for strawbale construction, which needs a breathable coating to prevent water from becoming trapped in the walls.

Mixing Instructions:

Place half the amount of water into the bucket, wheelbarrow or mechanical mixer. Add the dry material slowly into the mixer. Add the additional water and remaining dry material. Using a mortar hoe, paddle drill or mechanical mixer and mix for 3 full minutes. Let it rest for 15-20 minutes before mixing again for an additional three minutes. This product can be remixed with additional water up to 16 hours after initial mixing.

Surface Preparation:

Follow good working practices to ensure that the wall surface is thoroughly clean. If using any chemical treatments check with the manufacturer to be sure these chemicals will not react with the stucco. Any rebuilding or repointing should be carried out and allowed to cure a minimum of 72 hours before stucco work starts. Clear any loose mortar or deteriorated masonry material. Apply sufficient water to the wall surface to reduce excessive suction, especially on old brick and porous stone. This application of water should be done the day before several times with the last dampening just before the application of the base coat starts. Apply water starting at the top of the wall. Old brick require more water than new brick, concrete block require more water than most stone. As a result the top of the wall will dry out faster than the bottom. In applying the base coat this means that scouring back and keying of the lower section might be done later than the upper section. Always dampen areas before applying the next coat.

Application Procedures

Make sure to add just enough water to the hydraulic lime stucco to obtain the desired workability; too much water in the base coat can cause a higher risk of shrinkage cracks. Allow material to stand 15 minutes prior to use to allow the lime to take up the water. Remix and apply. A troweled scratch coat is recommended when applying stucco to historic brick or soft surfaces. The thickness of the base coat will depend upon the nature of the background. The normal thickness of the base coat should be 3/8" (10mm). Scour back and key the base coat (criss-cross keying preferred) once the material has taken its initial set and is thumbprint hard. The base coat must provide a mechanical key for the finish coat to adhere properly.

The base coat must not exceed 3/4" (20 mm). If this thickness is required two intermediate coats each not above 3/4" (20 mm) should be applied.

Apply finish coat to damp base coat surface using trowel. Apply firmly not to exceed 1/4" (6 mm) in thickness. Make sure to add just enough water to obtain the desired workability. Too much water in the finish coat can cause a higher risk of shrinkage cracks. Allow material to stand 15 minutes prior to use to allow the lime to take up the water. Remix and apply. To create a smooth lightly textured surface use a wooden float in circular motions after the material is thumbprint hard.

**PRODUCT
DATA
SHEET**

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Curing Procedures:

If frost, heavy rain, strong winds and/or direct sun are expected it is important to cover the stucco with plastic sheeting to protect from for a minimum of 72 hours after application. Dampen surface a minimum of once per day for the first 48 hours using a fine mist of water to initiate carbonation. Additional misting is required if temperatures exceed 90 degrees F or if direct sunlight is affecting the surface temperature of the wall. Check for shrinkage cracks during the first 24 hours. This material can be reworked up to 24 hours after initial application. If necessary, lightly mist with water and dampen the relevant area to allow the water to penetrate the material. Scour back and re-key. In case of intermediate coats this would apply to each coat. Do not apply finish coat until 48 hours has passed and the base coat is adequately firm.

Note: Base coat should be applied firmly to exclude air and any excessive moisture. Always apply this material on damp surfaces. Always dampen surface of previous coat before applying next coat.

Clean-up:

Do not use acidic or alkaline cleaners. Wash tools with water.

Safety Requirements:

Contains hydraulic lime and silica sand. May be irritating to eyes and nose. Prolonged inhalation may cause delayed lung injury, including silicosis. Avoid contact with eyes and skin. Wash skin thoroughly with water after handling. In case of eye contact, flush with plenty of water for at least 15 minutes. If irritation persists, consult a physician immediately. Dust mask, gloves and eye protection is recommended when handling or opening this package. **KEEP OUT OF REACH OF CHILDREN.**

Limitations:

Hydraulic lime stucco should be finished with a three-coat limewash application.

Storage:

Keep material in dry storage. Keep protected from high humidity conditions. For dry bagged product, do not allow plastic shrink wrap to remain on material pallet for extended periods of time as this can potentially trap moisture. For product packaged in buckets, ensure that the lid is tightly sealed.

Shelf Life:

Material should be used within six months of date of shipment.

Limited Warranty

U.S. Heritage Group, Inc. warrants this product to be of merchantable quality when used or applied in accordance with the manufacture's instructions. This product is not warranted as suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is LIMITED to the replacement of the product (as purchased) found to be defective, or at the shipping companies' option, to refund the purchase price. In the event of a claim under this warranty, notice must be given in writing to U.S. Heritage Group, Inc., 3516 North Kostner Ave., Chicago, IL 60641. **THIS LIMITED WARRANTY IS ISSUED AND ACCEPTED IN LIEU OF ALL OTHER EXPRESSED WARRANTIES AND EXPRESSLY EXCLUDES LIABILITY FOR CONSEQUENTIAL DAMAGES.**