



Lancaster Lime Works
NATURAL LIME FOR PRESERVATION AND BUILDING

Old Fashioned Casein

Product Name: Old Fashioned Casein

Manufacturer:

Lancaster Lime Works
1251 Beaver Valley Pike
Willow Street, PA
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<http://lancasterlimeworks.com>

Product Description:

Lancaster Lime Works Old Fashioned Casein is a natural protein polymer blend containing high quality casein (milk protein) prepared for use in our Lime Wash applications. It is a dry powder that is cream to tan in color. Protein content is 84% Fat content is 2% PH is 4

Designed to replace historic casein that was used in milk paints, etc.

Basic Use:

Lancaster Lime Works Old Fashioned Casein can be added to our Lime Wash to help promote durability in high traffic areas, to help prevent "chalking" and add durability. This type of casein was used as a helping binder in old fashioned milk paint recipes.

Mixing: There are a multitude of "historic" recipes that call for casein mixed with lime and other ingredients. This is only a suggestion of one use and no warranties or guaranties are made by Lancaster Lime Works regarding an "exact" recipe and how our Old Fashioned Casein is used.

Old Fashioned Casein should be pre-mixed with cold clean water prior to adding to Lime Wash. Add water to the dry casein at a ratio of **one part casein: two parts of cold water**. Let this admixture soak with gentle stirring until thoroughly wetted, usually allowing 12 hours of soaking before use.

After the casein has soaked, add enough limewash to allow it to totally dissolve into a "slimy glue-like" consistency, usually 2 cups of limewash per 2 lbs of casein. The high PH of the limewash will promote the casein to dissolve. Make certain that all casein granules have dissolved and then thoroughly mix the dissolved casein into the limewash. Admixture should be used within 24 hours after mixing.

16 oz of Old Fashioned Casein per five gallon bucket of Lime Wash is close to the old fashioned ratios we have found, however, the end user is responsible for exact ratios for the application desired and a mock-up is required. The ratios above can be reduced and altered as needed and other additives such as chalk and our Pozzolan can be added.



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This is a versatile casein, and installers should be thoroughly familiarized with how casein works in lime washes/milk paints.

Old Fashioned Casein is packaged in container sizes of 16 oz 1 gallon plastic pails with lids.

The 16 oz container size contains 1 1/4 cups (approx 200 grams) of Old Fashioned Casein which is one of the historic recipe amounts of casein per five gallons of lime wash.

The one gallon container size contains 5 lbs of Old Fashioned Casein

Installation/Limitations:

Application should be done using brushes or a sprayer to a pre-wetted surface. If a sprayer is used, a thorough back-brushing must be done immediately after application.

Alkali-stable pigments can be used up to 20% of the dry binder weight of the lime wash. The addition of Old Fashioned Casein may lower "breathability" and "permability" of the substrate that it is applied too and should not be added to the Lime Wash if maximum "breathability" is desired.

Installations should not be waterproofed or sealed in any way. Not recommended for below-grade exterior applications, or for locations that are constantly and directly wet. Cleaning should be done with very weak acids (such as white vinegar), being careful not to allow cleaners to come into contact with the lime wash. Cleaning with acid degrades surface lime and leaves behind salts which can later cause efflorescence.

Lancaster Lime Works Lime Wash must not be installed over any substrate that contains salt or other compounds that may cause product failure.

Contractors are responsible for ensuring that installers are properly trained in the correct application of the product.

Training is offered by LLW

Shelf life of unopened container is approximately two years.

Technical Data and Services:

Available upon request. Call our offices at 717.207.7014.

Safety/Health:

Refer to our Old Fashioned Casein SDS for safety information. Wear eye, respiratory and skin protection at all times when handling.