

Description: Pure and Natural Hydraulic Lime (NHL). Contains no additives. Conforms to European Norms (EN 459) and French Norm NFP 15.311

Performance:

Strength factor: 3.5 (Moderately hydraulic)
 Density (volumetric weight) : 40.6 lbs / ft³ (650gr / liter)
 Residue @ 0.09 mm: 6.5%
 Surface cover: 274 ft² / oz. (cm² per gram: 9000)
 Whiteness index: 72
 Expansion: < 3/64"(1mm)
 Free lime after slaking Ca(OH)₂ : 20%- 25%
 Residue of quick lime after slaking: < 1%

Packaging: 55 lbs. (25kg) Bags

Shelf Life: 8-12 months kept sealed and dry.

Mixing: Can be mixed in cement mixers.

► **Small Mixers:**

1. Introduce half of the required sand.
2. Add all of the lime.
3. Mix well (about 2 minutes until uniform color is achieved)
4. Add remaining sand and mix well again for 2 minutes.
5. Continue mixing until required workability is achieved adding water slowly for 10 minutes at least.

► **Large Mixers:**

1. Introduce equal parts of the required sand.
2. Add equal part of lime.
3. Dry mix well for 2 minutes.
4. Add more sand (in equal parts) and mix well again for 2 minutes.
5. Add remaining lime and remaining sand.
6. Continue dry-mixing for 2 minutes and slowly add water.
7. Mix for at least 12 minutes until workable paste is obtained.

Note: the best results are achieved by adding water slowly. The mortar should be more like dough than slurry. The longer the final mixing time, the more workable (fatter) the mortar will be.

Working Temperatures 40°F - 85°F: Ensure that high suction substrates are saturated with water before application. Avoid rapid drying due to high temperatures or strong winds by moist curing several times a day if needed. Protect from frost, rain, direct sun and strong wind during install and for a minimum of 72 hours thereafter.

Consumption:

► **Lath Work: 5.70 YARDS / 55LB. Bag**

- Scratch Coat (3/8"): 1 part NHL to 2 parts sand
- Brown Coat (3/8"): 1 part NHL to 2.5 parts sand

► **Strawbale: 3.30 YARDS / 55LB. Bag**

- Scratch Coat (3/4"): 1 part NHL to 2 parts sand
- Brown Coat (1/2"): 1 part NHL to 2.5 parts sand

Sand: Good, well graded, coarse sharp, sand is highly recommended – preferably washed, dried plaster or masonry sand. An excessive proportion of fines lead to longer setting time, possibility of shrinkage, lime leaching and more sensitivity to adverse weather conditions. Sands are mostly responsible for the void structure of a mortar and, therefore, for its vapor permeability, so vital for the performance against accumulation of condensation. It is for this reason that well graded sands are recommended. If sharp, the void structure will be even more efficient.

Mono granular sands (particle size mainly between 1 or 2 grades) will not allow good vapor exchange; they will also diminish workability and therefore increase the danger of too much water addition in order to achieve it. Workability should not be achieved by adding more water but by allowing a little more time for mixing.

It is also beneficial to let the mix set before use. The water will settle between the particles and allow better hydration of the free lime content resulting in a fatter, more homogeneous and workable mortar.

Cautions:

► **PROTECT THE WORK BY USING TARPS:** Curing and suction control are the most important factors. The slower the curing, the better the result. It is important to use tarps, burlap, etc. to protect the work for several days from adverse conditions such as sun, wind and rain. If conditions become too excessive, it may become necessary to mist water on the walls.

► **MIXING TIME:** At least 10 minutes. Ensure not to add too much water at the beginning. Measure the water carefully. The lime is going to hydrate slowly and too much water will result in a "slurry".

► **TIME BETWEEN COATS.** Wait a minimum of 10 days (or longer) between coats.

► **WET THE WALLS BETWEEN COATS.** At the end of the day, the day before the application of a new coat (brown or finish) we recommend that you soak the walls to allow them to absorb as much water as possible. Do not have any water running or dripping down the wall at the time of application.

► **REWORK THE PRODUCT:** NHL can be reworked up to 24 hours after application depending on weather conditions. This is possible mainly because there no cement is included. If some cracking occurs in the brown coat, mist the crack and close it up the next day.

The present product specification does not release the user from validating the product suitability on the substrate. The products of Mediterranean Colors are warranted to perform according to the manufacturer's instructions. This warranty may not exceed the cost of the product. Under no circumstances, Mediterranean Colors, LLC shall be responsible for consequential damages. The foregoing warranties are in lieu of all other warranties expressed or implied, including the warranties related to fitness for a particular purpose.