

deGruchy's

LIME de WORKSTM.us

Makers of

ecologic[®]

Brand
Mortar & Plaster
For Historic Restoration
and Green Building

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Why Use St. Astier Pure and Natural Hydraulic Lime?

St. Astier pure and natural hydraulic limes (NHL) have been in production for over 150 years. The characteristics of the raw materials are unique and consist of an undisturbed layer of calcareous rock infiltrated mainly by silica with only traces of other minerals. Millions of tons have been used successfully on a global scale, in the most diverse climatic conditions. During this time the uninterrupted experience of the manufacturer has generated a wealth of technical information both scientific and practical which is always available to the user.

Purity

NO ADDITION of any kind is made to the St. Astier Natural Hydraulic Limes to enhance their performance.

No Need For Blending

The St. Astier range of Natural Hydraulic Limes allows for the selection of the most suitable binder for the work at hand without having to add pozzolans, cement, plasticisers, water retainers, waterproofers etc. Blending introduces considerable risks, added costs and short and long term results that are uncertain and therefore potentially costly.

Compatibility & Suitability

The availability of a range of binders with different performance characteristics ensures the compatibility of St. Astier NHL mortars with existing mortars whatever their age.

Free Lime Content (available lime)

Responsible for workability and self-healing in NHL mortars.

Economy

The low bulk density of all NHL products will produce more mortar as they are purchased by weight but mixed by volume.

Versatility of Use

Building and plastering mortars, grouts, injection, lime concrete and paints are all possible with NHL products.

Elasticity

Important in minimizing shrinkage and cracking. Allows for minor movements.

Breathability

Good vapor exchange qualities allow for condensation dispersion. Great benefits to the living environment.

Resistance to Salts

The absence of any potentially damaging component or additions (i.e. gypsum or cement) make sulphate attack and alkali-silica reactions impossible. Existing salts in the building fabric will pass through and eventually wash off. Excellent performance in marine environment.

Suitable Compressive Strength

Unlike cement or cementitious mixes (1:1:6 etc.) the compressive strength will be achieved gradually, allowing for movement. The availability of a range will permit the making of mortars with the required strength without having to add or blend.

Resistance to Weather

Early setting means less time for protection from adverse weather.

Self-Healing

The available lime provides this benefit.

Resistance to Bacteria & Vegetation Growth

The long lasting alkalinity of the binder inhibits their development.

Insulation

The excellent vapor permeability of NHL mortars reduces moisture in walls, therefore significantly improving insulation levels.

Sand Color Reproduction

The whiteness of the NHL binders will reproduce the color of the aggregate used.

Reworking

All St. Astier mortars can be reworked (8-24 hours), reducing waste and increasing work rate. This is due to the absence of cement, gypsum, pozzolans or high aluminates.

Recycling

Materials built with NHL mortars can be reused.

CO₂ Absorption

Probably the most eco-friendly feature of using limes. CO₂ is re-absorbed during the carbonation of the free lime.