



TECHNICAL DATA SHEET

Quicklime

RJ 1.03

Description:

White or creamy-white powders produced by the calcination of limestone or chalk (occasionally seashells) in a kiln at >8500C. Quicklime is slaked or hydrated and when produced from pure limestone produces non-hydraulic lime. Certain siliceous limestones when calcined produce quicklime that when hydrated produce lime with weak hydraulic properties. Unconverted limestone and occasional flint and/or quartz are also often present.

Uses:

Quicklime (Calcium oxide CaO) is slaked to produce lime putty and lime-wash or hydrated to produce hydrated lime. There is renewed interest in hot-mix mortar production where quicklime and sand/aggregate are mixed with water and either used immediately whilst hot or cooled and stored before use. A reactive pozzolanic additive is normally site-gauged when using hot-mixes.

Availability:

Singleton Birch Microlime 90, Singleton Birch Fine Lime 2, Calbux 90

Shelf Life:

Up to 3 months in original un-opened bags kept in DRY storage.

Health & Safety:

EXTREME CAUTION. FULL PPE ESSENTIAL.
Quicklime reacts violently and exothermically with water
See Health and Safety Data Sheet RJ 5.01 B.
CALCIUM OXIDE (CaO) Alkali (pH 13).
CAS No. 1305-78-8. EINECS No. 215-138-9
Danger: H318 Causes Serious Eye Damage.
H315 Causes skin burns and irritation.
Warning: H335 May cause respiratory irritation.



Observations:

The handling and use of quicklime is a hazardous activity and great caution exercised and full PPE (personal protective equipment) worn. Tradesmen familiar with the Lime Method, and with experience of the use of quicklime and hot-mixing must be employed. Accurate volumetric site mixing is essential. Hot-mix mortars do not perform as modern hydraulic lime or cement and set by carbonation alone (the reaction with atmospheric carbon dioxide in the presence of moisture). This is a slow process and keeping moist to promote carbonation, 'tending' to prevent shrinkage crazing and protecting is crucial to success and long-term performance. Protections are essential. Do not use if risk of excessive heat or frost.

Technical Advice:

From our Technical Department

01935 83676

info@roseofjericho.co.uk

All product and H & S data can be printed from our web site:

www.roseofjericho.co.uk

Disclaimer:

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