BUILDING PRODUCT INFORMATION REQUIREMENT

CLASS 1

BUILDING PRODUCT

Summit Cement Group Limited | **Summit Quick Lime**

1. PRODUCT IDENTIFICATION

Product name:	Summit Quick Lime
Chemical name:	Calcium Oxide (CaO)
Synonyms:	Quicklime, burnt lime, Calcium Oxide
CAS number:	1305-78-8
Standard of compliance:	NZS 4108:2005 — Specification for Quicklime and Hydrated Lime
HSNO approval:	HSR002491 — Additives, Process Chemicals and Raw Materials (Corrosive) Group Standard 2020
UN number:	1910 — CALCIUM OXIDE (regulated for air transport only)
DG class:	8 — Corrosive | Packaging group: III | Hazchem code: 2X
Available sizes:	Bulk tanker loads | 1 tonne bulk bags | 25 kg bags

2. MANUFACTURER AND SUPPLIER DETAILS

Place of manufacture:	Vietnam
Importer / Distributor:	Summit Cement Group Limited
Address:	612 Swanson Road, Swanson, Auckland 0612, New Zealand
Phone:	09-621-0140
Emergency phone:	0800 764 766 (0800 POISON — 24hr)
Website:	summitcementgroup.nz
Email:	hunter@summitcementgroup.nz
NZBN:	9429052693311

3. INTENDED USE

Summit Quick Lime is a raw material intended for use in construction and civil engineering applications, including:

- Soil and subgrade stabilisation for building platforms, roading and earthworks
- Ground improvement to reduce plasticity and increase bearing capacity of reactive clays
- Ingredient in the manufacture of construction products, mortars and grouts
- Stabilisation of soft or wet ground prior to construction

The product is not a finished building component. It is a raw material used by qualified practitioners to treat in-situ soils or as an ingredient in construction products.

4. BUILDING PRODUCT CLASSIFICATION

This product is a Class 1 building product under the Building (Building Product Information Requirements) Regulations 2022.

As a hazardous substance (corrosive), this product is also subject to the Hazardous Substances and New Organisms Act 1996 (HSNO) and must be handled, stored and used in accordance with the current Safety Data Sheet (SDS).

5. PRODUCT IDENTIFICATION MARKINGS

Summit Quick Lime is identified by the following markings and labelling:

- All bags and bulk bags are labelled with the product name, chemical name (Calcium Oxide), CAS number, UN number and HSNO hazard classification.
- Packaging displays the DANGER GHS corrosive hazard symbol in compliance with the Hazardous Substances (Labelling) Notice 2017.
- Bulk tanker deliveries are accompanied by a delivery docket stating product name, batch number, date of loading and weight.
- Each batch is assigned a unique number traceable to the manufacturing plant.
- Certificates of analysis are available on request, confirming CaO content and reactivity.
- Packaging carries Summit Cement Group Limited importer details and NZBN: 9429052693311.
- Test certificates and batch records are retained and available to building consent authorities upon request.

6. CONTRIBUTION TO NEW ZEALAND BUILDING CODE COMPLIANCE

When used, designed and installed in accordance with the conditions set out in this document, the NZBC, and the current SDS, Summit Quick Lime will contribute to compliance with the following clauses:

NZBC Clause	Clause Title	Contribution to Compliance
B1 Structure	Structural Performance	Summit Quick Lime is used in ground improvement and soil stabilisation to increase bearing capacity and reduce settlement. When specified and applied by a suitably qualified geotechnical engineer, treated subgrade contributes to the structural performance of foundations in accordance with NZS 3604 and NZS 4203.
B2 Durability	Durability Requirements	Lime stabilisation reduces the plasticity index and moisture susceptibility of reactive soils, contributing to the long-term durability of treated subgrades. Performance is dependent on correct dosage rates, mixing depth and curing conditions specified by the designer.
E1 Surface Water	Surface Water Management	Stabilised ground reduces differential settlement and erosion potential, contributing to the management of surface water run-off and protection of the building platform. Site-specific drainage design remains the responsibility of the project engineer.
F2 Hazardous Building Materials	Health and Safety	Summit Quick Lime is a hazardous substance (HSNO Approval HSR002491 — Corrosive). When handled, stored and applied in accordance with the Safety Data Sheet (SDS) and applicable WorkSafe NZ requirements, it does not present an ongoing hazard once incorporated into stabilised ground. Complies with NZBC Clause F2.3.1.

7. LIMITATIONS ON USE

■ Summit Quick Lime is a HAZARDOUS SUBSTANCE — corrosive. It must be handled in strict accordance with the current Safety Data Sheet at all times.

- Quicklime reacts exothermically with water. Contact with water generates significant heat and can cause burns. Keep dry at all times prior to and during application.
- Performance characteristics including reactivity and CaO content may vary between batches. Dosage rates must be determined by laboratory testing for each specific soil type.
- Summit Cement does not provide performance warranties for treated soil. Stabilisation outcomes are dependent on soil type, moisture content, mixing depth, dosage rate and curing conditions.
- This product is not suitable for use in applications other than those listed in Section 3 unless confirmed in writing by Summit Cement.
- Runoff from quicklime application must be prevented from entering drains, sewers or waterways. Compliance with the Resource Management Act is required.
- Not suitable for use in confined spaces without appropriate ventilation and respiratory protection.

8. DESIGN REQUIREMENTS

Quicklime stabilisation must be designed by a suitably qualified geotechnical engineer with experience in lime stabilisation of New Zealand soils.

The designer must determine:

- Soil suitability through laboratory testing (Atterberg limits, CBR, UCS)
- Optimum lime dosage rate through lime series testing
- Minimum treatment depth and mixing methodology
- Curing period and moisture management requirements
- Any compatibility issues with existing ground conditions or adjacent structures

Design should reference NZS 4407, NZS 3604, Transit NZ (Waka Kotahi) stabilisation specifications, and relevant geotechnical standards as applicable to the project.

9. INSTALLATION REQUIREMENTS

The use of Summit Quick Lime in construction must comply with:

- The designer's or engineer's specifications and approved stabilisation design
- The current Safety Data Sheet — all PPE and handling requirements must be observed
- Health and Safety at Work Act 2015 and associated regulations
- HSNO Act 1996 — Approval HSR002491 controls and requirements
- NZS 4407 — Methods of sampling and testing road aggregates (where applicable)
- Waka Kotahi specifications for stabilisation works (roading projects)
- Recognised good trade practice for lime stabilisation

All installation work must be carried out by trained and competent personnel under appropriate supervision. Operators must wear full PPE as specified in the SDS — including eye protection, respiratory protection, gloves and protective clothing.

10. MAINTENANCE REQUIREMENTS

Not applicable to the quicklime product itself. Once correctly incorporated into stabilised ground and fully cured, the treated material does not require ongoing maintenance of the lime component.

The performance of the stabilised ground should be monitored by the geotechnical engineer of record during and after construction to confirm design outcomes have been achieved.

11. WARNING OR BAN UNDER SECTION 26

This product is not subject to any warning or ban issued under Section 26 of the Building Act 2004.

Note: Summit Quick Lime is a hazardous substance under HSNO (Approval HSR002491). Users must comply with all applicable HSNO controls. Refer to the current Safety Data Sheet for full hazard, handling, storage and emergency information.

ADDITIONAL NOTES

Summit Cement Group Limited maintains quality assurance systems to ensure all quicklime products meet the specified CaO content and reactivity requirements at point of dispatch.

The company recommends that all users obtain site-specific geotechnical advice before specifying or applying quicklime stabilisation. Laboratory pre-testing of the specific soil to be treated is strongly recommended prior to any field application.

This BPIR must be read in conjunction with the current Safety Data Sheet for Summit Quick Lime, which contains full hazard identification, first aid, handling, storage, disposal and emergency response information.

Document Control	
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This Building Product Information Requirement must be read in conjunction with the current Safety Data Sheet for Summit Quick Lime.