

CONSISTENTLY DELIVERING

CLC BUILDING AND PLASTER LIME –Technical Data Sheet

DESCRIPTION: CLC Building and Plaster Lime is a fine pressure hydrated dolomitic lime

PACKAGING: 25kg in multi-ply paper bags

APPLICATIONS: Additive to improve the workability of mortar and plaster mixes. Anti-stripping agent in Asphalt mixes.



***TYPICAL CHEMICAL ANALYSIS:**

Calcium Oxide (CaO)	35.0%
Magnesium Oxide (MgO)	24.2%
Silica (SiO ₂)	12.2%
Iron Oxide (Fe ₂ O ₃)	0.4%
Alumina (Al ₂ O ₃)	0.9%
Carbon Dioxide (CO ₂)	Max 8.0%
Sulphur Trioxide (SO ₃)	Max 1.0%
Free Moisture	Max 1.0%
pH	>12
*Tested when required	
General Expansion	Max 30
Pat Soundness (No popping, pitting, cracking or disintegrating)	Passes test
Plasticity	Min 200
Fineness	
Retained on 600 μ	Max 0.5%
Retained on 75 μ	Max 30.0%

Application Recommendations:**Mortar Mix:**

Class 1 Mortar (10 MPa): Up to 10 kg per 50 kg pocket cement and 130 ℓ sand. Water 40-60 ℓ*

Class 2 Mortar (5 MPa): Up to 25 kg per 50 kg pocket cement and 200 ℓ sand. Water 50-80 ℓ*

Plaster Mix:

External: Up to 25 kg per 50 kg pocket cement and 150 ℓ sand. Water 50-80 ℓ*

Internal: Up to 25 kg per 50 kg pocket cement and 150 ℓ sand. Water 50-80 ℓ*

* The water requirement is dependent on the sand quality. Adjust the water quantity to obtain the desired consistency for the application.

Advantages in Cement Mixes:

CLC Building and Plaster Lime may also be used to improve poor fine aggregate quality, improve the workability, cohesiveness, plasticity and finishability of plaster, mortar and concrete mixes. Adding CLC Building and Plaster Lime to plastic fines can improve the aggregate through the mechanisms of cation exchange, flocculation/agglomeration, and pozzolanic reactions. These reactions result in a change in the characteristics of the fines so that they are no longer plastic but act as agglomerates held together by a "pozzolanic cement". This process makes the aggregate fines much less susceptible to moisture by reducing their ability to attract and hold water.

CLC Building and Plaster Lime reduces the water permeability in the cured cement applications and exhibits the ability to seal fine cracks by the carbonation reaction.

Advantages in Asphalt Applications:

CLC Building and Plaster Lime acts as a mineral filler to stiffen the asphalt binder and hot mix asphalt, it improves resistance to fracture growth and favourably alters oxidation kinetics and interacts with products of oxidation to reduce their deleterious effects; and alters the plastic properties of clay fines to improve moisture stability and durability.

CLC Building and Plaster Lime reduces "Stripping" which is commonly defined as "loss of adhesion between the aggregate surface and asphalt cement binder in the presence of moisture."

SAFETY DATA: Refer to the CLC Building and Plaster Lime MSDS