

LIMELITE CEMENT BACKING PLASTER

IDENTIFICATION

Introduction

Pre-blended and dry-bagged, **Limelite Cement Backing Plaster** is designed to provide a lightweight plastering system having similar working properties to a traditional 1 : 1 : 6 cement : lime : sand plaster, but with a reduced bulk density. For high suction backgrounds **Limelite Cement Backing Plaster** with 'X ADDs' special additives is available at no extra cost.

Authority

Refer to BS 6100 – 6.2.

Use in accordance with recommendations in BS 5492.

DESCRIPTION

Composition and manufacture

Limelite Cement Backing Plaster is manufactured under strictly controlled conditions to ensure consistency.

The plaster is manufactured from ordinary Portland cement, hydrated lime, Perlite lightweight aggregate and workability aids.

Man-made fibres are incorporated in to the mix to control shrinkage and improve flexural strength.

Note Perlite ore is a volcanic material containing small quantities of occluded water.

After crushing and grading the ore is passed through a furnace. The water is turned to steam causing rapid expansion of the material to form a low density aggregate.

DENSITY

Typical test results in kg/m³

Bulk as Supplied	600
Set and Air Dried	800
Set and Oven Dried	725

For Comparison Sanded 1 : 1 : 6 mortars

Bulk as Supplied	2000
Set and Air Dried	1900
Set and Oven Dried	1850

APPEARANCE

Ex-Works as Supplied	Fine Grey Powder
Set & Dried after application	Light Grey keyed finish

PERFORMANCE

Strength

Based on typical results. N/mm² at 28 days.

Compressive	3.0
Flexural	1.4
Modulus of elasticity	2,100

For Comparison Sanded 1 : 1 : 6 mortars

Compressive	3.5
Flexural	1.0
Modulus of elasticity	12,400

Effect of Moisture

Limelite Cement Backing Plaster skimmed with **Tarmac High Impact Finishing Plaster** is not impervious to water vapour, but will resist the passage of soluble salts.

Thermal

Moisture by Volume	0%	3%
Thermal Conductivity (K) W/m°C	0.13	0.21
Thermal Resistance (R) at 13mm overall thickness m ² C/W at 3% moisture by volume		0.058

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For Comparison Sanded 1 : 1 : 6 mortars

Moisture by Volume	0%	3%
Thermal Conductivity (K) W/m°C	0.61	0.97
Thermal Resistance (R) at 13mm overall thickness m ² °C/W at 3% moisture by volume		0.015

The above data obtained from CIBS A3 Guide : Thermal Properties of Building Structures, 1980.

FIRE RESISTANCE

Limelite Cement Backing Plaster is non-combustible as defined in BS 476 : Part 4, and can be designated Class O in accordance with the requirements of the National Building Regulations for use as a surface finishing material.

HEALTH AND SAFETY

No hazard under normal conditions of use.

See separate data sheet reference 84/5A

COMPATIBILITY

Limelite plasters are compatible with most building materials. Lime content minimises efflorescence and rusting of metal lathing and conduits.

Pattern staining and mould growth are also controlled. Limelite plasters are not recommended for use over plasterboard, similar paper faced building boards, backgrounds having a bituminous coating or traces of gypsum.

Never use **Limelite Cement Backing Plaster** and gypsum based plasters in the same mix when gauging.

Do not use gypsum plasters for fixing angle beads etc. where **Limelite Cement Backing Plaster** is being used. Limelite Easy-Bond is ideal for this purpose.

DURABILITY

When correctly applied Limelite plasters will have an indefinite life. Even where the backing plaster coat is left unskimmed for any length of time, the presence of cement and lime provides a hard, damage resistant wall surface.

APPLICATIONS

Uses

For plastering most traditional backgrounds particularly where surface hardness, resistance to efflorescence and early decoration are important.

Limelite Cement Backing Plaster with 'X ADDS' should be used on high suction backgrounds.

Limelite Cement Backing Plaster has a controlled setting time, does not segregate and can be spray applied.

MODEL SPECIFICATION

The plaster throughout to be **Limelite Cement Backing Plaster** or Limelite Cement Backing plaster with 'X ADDS' and Tarmac High Impact Finishing plaster.

Use in accordance with manufacturers instructions.

QUALITY CONTROL

All CMS Pozament products are factory blended, tested and packaged to quality control procedures in accordance with BS EN ISO 9001 Series.

PACKAGING AND STORAGE

Limelite Cement Backing Plaster is available in 25kg sacks, palletised and shrinkwrapped.

Palletised **Limelite Cement Backing Plaster** should be stored in cool dry areas clear of the ground, sheeted or under cover and stacked not more than two pallets high.

The product should be used on a first in – first out basis.

Shelf life is minimum 3 months when properly stored but could be in excess of 6 months subject to temperature and humidity.

INFORMATION, PRICES & ORDERING

For ordering contact: 01283 550060.

Fax: 01283 550486.

For all other enquiries contact: 01283 554800.

NB: Please give not less than 48 hours notice.

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