

LIMELITE HERITAGE LIME GROUT



PRODUCT DATA SHEET

LIMELITE HERITAGE GROUT LPB221

LIMELITE HERITAGE PRODUCTS

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Description

LPB221 is a cement-free grout designed to be used as a void filler in listed monuments and historic buildings where minimal strength is required. When mixed at the optimal water to solids ratio (WSR) **LPB221** has excellent fluidity and a high yield.

Uses

LPB221 is designed for filling voids in open textured rubble filled walls using gravity fed or injection systems. This operation is normally needed when thick walls of double skin construction with rubble core filling have been subjected to the percolation of water over many years. This washing action removes weak mortar thereby creating voids or allowing the loose fill to accumulate at the base of the wall causing a cracking, bulging or displacement of stones.

The grout can also be used for general void filling where a minimal strength and the absence of cement is required.

A detailed investigation of the structure is always recommended prior to grouting especially where large areas are involved.

Features

- Lime based; Portland cement free
- Blend of lime, pulverised fuel ash and clay
- Factory supplied and quality controlled
- Develops strength very slowly at normal temperatures
- Typical strengths of 0.1N/mm² at 28 days when mixed at a WSR of 3.0
- Low density – lower stresses are put onto the structure.
- High yield – approximately 3m³ of mixed grout per tonne.
- Gradual strength generation - reduces strain on the structure.
- High fluidity to achieve maximum penetration into the substrate
- High flexibility

Application

LPB221 is an extremely fluid grout when mixed at the recommended WSR of 3.0 and is designed to be applied by gravity feed systems where the masonry is very vulnerable to movement under pressure. Examples of suitable grouting equipment can be found in Technical Note 12 (DOE Directorate of Ancient Monuments and Historic Buildings). Note: Due to the extremely fluid nature and slow setting properties of **LPB221**, care must be exercised not to impose an excessive hydrostatic pressure on weak structures. Small holes (e.g.



25mm diameter) are drilled into the walls where voids have been located or are anticipated. The walls must be thoroughly flushed with water to remove loose fill soil or vegetable matter prior to application of the grout. Note: It is recommended that a suitable packing material (e.g. clay, hemp, hessian etc) is available during the grouting operation to plug any leaks in the wall.

Installation

The approximate yield of **LPB221** per tonne of dry powder is 3m³ when mixed at a WSR of 3.0. The approximate quantity of **LPB221** to produce one cubic metre of set material is 0.33 tonnes. These figures do not account for site wastage.

Water

Water for mixing **LPB221** should be clean, potable water compliant with the requirements of BS EN 1008.

Quality Control

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

Packaging and Storage

LPB221 is available in nominal 10kg sacks, palletised and shrink wrapped.

Palletised **LPB221** 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.

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

Clean Up and Spilages

Dry powders should be swept up and disposed of in accordance with local authority regulations.

Health & Safety

Health and safety advice, which must be followed, can be found on the Material Safety Data Sheet. Users are advised to wear face mask, goggles, gloves and overalls when handling, mixing and applying cementitious products.

Contains Portland Cement Contains Chromium (VI), which may produce an allergic reaction. Clothing contaminated by wet cement should be removed immediately and washed before reuse. R38 - Irritating to skin. R41 - Risk to serious damage to eyes. S26 - In case of contact with eyes, rinse immediately with water and seek medical advice. S37/39 - Wear suitable gloves and eye/face protection. S2 - Keep out of reach of children.



Information, Prices & Ordering

If you have any questions about choosing the right product for your particular job, or if you are ready to order, please call us on:

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