



DATASHEET

Lithomex

Stone repair and restoration mortar

Specially formulated mortar based on Natural Hydraulic Lime and aggregates for the repair or simulation of masonry, brick or stone.

Lithomex is a neutral white or pre coloured mortar supplied in 1KG to 25KG bags to which mixing water is added.

Mixing and use:

Can be mixed manually or mechanically by whisk, adding up to 180ml water per kilogram of Lithomex used. Mix well for 3-5 minutes.

The application surface must be clean, free from dust and oils. On porous surfaces, ensure that suction is controlled by pre-wetting and apply Lithomex before this is fully dry. Never apply to surfaces that are over saturated or have standing water. It can also be applied on metal laths.

For application on dense impervious materials, please consult us.

The minimum thickness is 5mm (can be dressed or cut back to a feather edge). The maximum thickness is 80 - 100mm. In cases where a thickness of more than 40mm is required, apply in layers of a maximum of 40mm, each one approximately 24 hours apart.

Always dampen application areas. The mortar should be well pressed back in place. If required re-compact by pressing after a couple of hours to avoid possible shrinkage marks due to suction from the background.

In some instances support of the fresh mortar is required by using wires, anchorages, stainless steel fixings or formers, etc...

Simulation of stone / brick features, rough finishes, false joints etc. can be made approximately 5 hours from application (in damp cold weather up to 24 hours).

Shaping and forming of details can be carried out for up to 1 week after placing by scraping to profile or level with metal tools, such as the edge of a trowel or steel float however most shaping and finishing work can be done within 24 hours.

Fine polished finishes are achieved either by troweling at time of placing or by fine carborundum paper after the material is sufficiently hard.

Sculpting, using appropriate tools, requires waiting up to a week or more depending on the weather conditions.

Its unique qualities allow it to be tooled, shaped and sculpted even after the final set has taken place. This affords sufficient time to achieve the very highest standard of work with the best quality reproduction.

When required it is possible to build out in Lithomex in two passes to 80mm saving on scaffolding and labour costs.



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Where ashlar masonry or very finely jointed masonry has had considerable damage to the arises, flush finishing in Lithomex with a false struck joint is the ideal solution.

If building details are damaged and require repair prior to the façade being lime washed or painted, plain un-coloured Lithomex should be used as it will readily accept lime washes and paints.

On rendered areas Lithomex can be used to form decorative stone or brick features such as mouldings and cornices.

Technical Data

Bulk density: (kg/m^3) : 1325 – 1360

Granulometry: from 0.8 to 0.08mm

Consumption: 1.6 to 1.7 kg. per m^2 per mm. of thickness

Setting time (in water with no surcharge): start -- 1h30min / end – 2h30min. Tests on paste (water addition 18.7%)

Tests on hardened mortar (water addition at 18.7%)

Capillarity	2.06 $\text{gr.cm}^2 \cdot \sqrt{2} \text{ min}$	LOW	tested at 28 days
Water permeability	0.25 ml.m.day	LOW	tested at 28 days
Vapour permeability	0.75 $\text{gr.m}^2 \cdot \text{hour.mmHg}$	VERY HIGH	tested at 28 days

	Tensile Strength N/mm^2	Compressive Strength N/mm^2	Elasticity Moduli MPa	Shrinkage mm.m
7 days	2.20	6.20		0.81
28 days	2.38	7.25	7690	0.85

The above details are given for information purposes only. Final dosages and application should be checked with our technicians. The Factory reserves the right to alter specifications.