

## LIMELITE LIGHTWEIGHT PRODUCTS SPECIFIERS GUIDE

*These notes are intended to provide useful information to specifying authorities as to the correct selection and application of Limelite products.*

### GENERAL RECOMMENDATIONS

The substrate to be plastered should be clean and free from dust. All mould, oils and foreign liquids must be removed from in-situ concrete areas prior to plastering or screeding. Never apply Limelite plasters directly onto glazed brickwork or backgrounds having a bituminous coating without prior consultation and specification obtained from our Technical Services Department, 01283 554800.

Where timber noggins are encountered, these should first be covered with building paper. Follow this by studding expanded metal lathing over the timber to the brickwork on either side.

Under no circumstances should angle beads be fixed with gypsum based materials, including **Tarmac High Impact Finishing Plaster**, on areas where **Limelite Backing Plasters** are being used. An alternative method of fixing beads, stops etc., should be used e.g. **Limelite Easy-Bond**, embedding in the first coat of plaster or using masonry nails.

**Limelite Backing Plasters** should never be applied to backgrounds containing traces of gypsum.

P.V.A. bonding agents should not be used as some of these can re-emulsify in damp conditions causing bond failure. S.B.R. or E.V.A. bonding admixtures may be used in accordance with the manufacturer's instructions.

Walls treated with dry-rot fluids should be left to dry for a minimum of 7 days before application of Limelite plasters. Failure to allow such walls to dry can lead to prolonged drying out of the undercoat - see section on Drying Time.

Do not apply plaster onto frozen substrates or when the air temperature in the room is at, or near freezing.

Do not introduce any additives or contaminants into Limelite materials without prior consultation with the manufacturer. Never gauge any of the **Limelite Backing Plasters** with gypsum based materials, including **High Impact Finishing Plaster**.

Never use any other finishing coat than **High Impact Finishing Plaster** on Limelite undercoats without prior consultation with the manufacturer.

Do not polish up **High Impact Finishing Plaster** as this can inhibit the breathing properties and give rise to uneven paint application.

Always observe the correct standards of plastering practice and if ever in doubt contact the Limelite Sales Office, 01283 554800.

### SITWORK - LIMELITE PLASTERS

#### General Purpose

*Common bricks.*

*Concrete bricks & blocks with moderate suction & good key.*

*Clinker blocks. Clay blocks.*

*Patent partition blocks (not high suction or fair faced).*

**Two coat system** - float and skim. Apply either **Limelite Cement Backing Plaster** or **Limelite Quick-Drying Plaster** in one coat to a thickness of 11mm and scratch with a devil float to key for the finish. Leave to set for a **minimum** of 24 hours before applying **Tarmac High Impact Finishing Plaster** to a thickness of approx. 2mm. In cold, damp conditions, delay application of the finish until the backing has set and dried. See section on Drying Time.

#### High Suction Backgrounds

Autoclaved aerated concrete blocks with good key, or any substrate with high suction.

**Two coat system** - float and skim. Apply **Limelite Cement Backing Plaster with 'X ADDS'**, a specially formulated version of **Limelite Cement Backing Plaster**, in two layers. The first layer should be applied using very firm pressure. Then, using the same mix, float out to a total thickness of 11mm and key for the finish. Leave to set for a minimum of 24 hours before applying **Tarmac High Impact Finishing Plaster** to a thickness of approximately 2mm.

#### Metal Lathing

Expanded metal lathing, timber lath, non-solid backgrounds.

**Two coat system** - on vertical substrates.

**Three coat system** - on horizontal substrates. Apply **Limelite Quick-Drying Plaster** to the lath with sufficient effort to force the plaster through the lath and bring out to a thickness of approximately 11 mm from face of lath. Key and leave for a **minimum** of 72 hours before applying **Tarmac High Impact Finishing Plaster** to a thickness of approximately 2mm.

**For application onto ceiling:** Apply a pricking up coat of **Limelite Quick-Drying Plaster** to a thickness of 4.5mm from face of lath. Key and next day apply a float coat to give an overall thickness of 12-13mm. Key and leave for a **minimum** of 72 hours before applying **Tarmac High Impact Finishing Plaster** to a thickness of approx. 2mm.

#### Concrete and low suction backgrounds, Engineering bricks

Beam and pot ceilings. Concrete lintels. Ring beams.

Concrete bricks and blocks (dense, smooth over 7 N/mm<sup>2</sup>).

Fair faced blocks. Calcium Silicate bricks. Dense stone masonry.

Any other substrate with little or no key or suction.

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**Two coat system** - Float and skim. Apply a tight coat (6mm) of **Limelite Cement Backing Plaster** to which has been added during mixing 2.5 litres of Bonding Additive per 25Kg sack, turn back over this immediately with **Limelite Cement Backing Plaster** without the bonding additive and bring out to a total thickness of 11mm. Key and leave for a **minimum** of 72 hours before applying **Tarmac High Impact Finishing Plaster** to a thickness of approximately 2mm.

### Painted surfaces

Various

Remove all paint by sandblasting, needle hammer or similar and open up mortar joints. Then proceed as in sections 1, 2 or 4 dependent on the background revealed.

*N.B. If the areas to receive plaster are damp, **Limelite Renovating Plaster** should be used following the same method. In cold, damp conditions, delay application of the finish until the backing has set and dried - see section on Drying Time.*

### Damp walls of older properties above ground level

Various

Hack off all old plaster and loose friable materials including salts etc. (if painted brickwork is present prepare as in section 5). Apply **Limelite Renovating Plaster** to a thickness of approximately 11mm and key for the finish. Leave to set for a **minimum** of 24 hours before applying **Tarmac High Impact Finishing Plaster** to a thickness of approximately 2mm. In cold, damp conditions, delay application of the finish until the backing plaster has set and dried - see section on Drying Time. Badly aligned brick or stone backgrounds may require dubbing out. In this event each coat of **Limelite Renovating Plaster** must not exceed 11mm in thickness, must be well scratched with a comb, and a **minimum** of 12 hours must be left between each coat.

### After insertion of a new damp-proof course

Various

Hack off all old plaster and loose friable materials including salts etc. to a height of at least 450 mm above any visible sign of dampness, staining or deterioration of plaster (if painted brickwork is present prepare as in section 5). Apply **Limelite Renovating Plaster** to a thickness of approximately 11mm and key for the finish. Leave to set for a **minimum** of 24 hours before applying **Tarmac High Impact Finishing Plaster** to a thickness of approximately 2mm. In cold, damp conditions, delay application of the finish until the backing has set and dried - see section on Drying Time. Badly aligned brick or stone backgrounds may require dubbing out. In this event each coat of **Limelite Renovating Plaster** must not exceed 11mm in thickness, must be well scratched with a comb and a **minimum** of 12 hours must be left between each coat.

*N.B. Care must be taken not to bridge the d.p.c. by plastering down to floor level.*

### Areas below ground level

Various tanking operations

Limelite plasters are not recommended for tanking purposes, but can be complementary to tanking specifications. By creating a warmer surface they help to reduce condensation and overcome associated effects such as mould growth. When applying **Limelite Renovating Plaster** onto a tanking rendering specification such as SIKA or similar, or an epoxy resin membrane such as Polybond Q19, the application should be strictly in accordance with the system manufacturer's recommendations.

### Insulation boards

Plasticell Styrofoam IB

**Two coat system** - float and skim. Scratch the board surface to provide a key and apply **Limelite Cement Backing Plaster** using very firm pressure to a thickness of approximately 7mm. Key and allow to set and dry for a **minimum** of 4 DAYS before applying **Tarmac High Impact Finishing Plaster** to a thickness of approximately 2mm.

### Historical / Listed buildings

Special refurbishment work

e.g. Excessive thicknesses, poor structure of substrate etc.

Detailed information and individual specifications can be obtained from Limelite. Tel: 01283 554800.

### DRYING TIME

Except under cold and/or damp conditions, **Limelite Cement Backing, Limelite Quick-Drying** and **Limelite Renovating** plasters should be sufficiently dry after 24 hours to receive the finish.

In poor conditions, however, or where the suction of the background is low, i.e. metal lathing, engineering brickwork or dense stonework, it may be necessary to delay the application of the finish.

It is not possible to state the precise period, but as a guide the development of fine shrinkage cracks in the floating coat shows that drying out has progressed sufficiently to permit the finishing coat to be applied. If necessary adjust the suction by lightly sprinkling with clean water immediately before applying the finish.

Do not apply excessive heat to newly plastered areas. Dehumidifiers can be used to assist the drying out.

### APPROXIMATE THICKNESS

Finished plasterwork

BACKGROUND	THICKNESS
Bricks, blocks, stone masonry etc	13.0mm
Concrete and insulation boards	8.5mm
Metal lathing	14.0mm
Composite walls and ceilings	14.0mm

Where greater thicknesses are required due to backgrounds being misaligned, the plasterwork may be built out, allowing each coat to set and dry before applying the next.

### Recommendations on thicknesses over 20mm

In all cases where thicknesses over 20mm are to be applied, the thickness must be built up in successive coats. The first coat should be no greater than 10mm, and subsequent coats should reduce in thickness towards the finished surface. In cases of excessive thickness, before skimming, the floating coat must be left for at least 3 days. In cold, damp conditions, delay application of the finish until the backing has set and dried - see section on Drying Time.

### DECORATIVE FINISHES

The application of wood-chip papers and non-porous paints or wall coverings is not recommended for at least nine months as these will slow down the drying process and nullify the anti-condensation attributes of the plaster. Use a permeable emulsion paint instead.

Tiles when used should be applied directly onto the floating coat once this has set and dried.

**GO BACK**