LIMECOAT

TWO-COMPONENT LIME-BASED MICROCEMENT

2

TWO COMPONENTS

LIME-BASED MINERAL FINISH

HIGH ADHESION

1-3 MM SYSTEM THICKNESS

PRODUCT DESCRIPTION

LIMECOAT is a two-component lime-based decorative coating comprising LIMECOAT powder and RESILCEM acrylic resin. It is designed for thin, seamless finishes on floors and walls and is applied by trowel in successive coats.

The range includes S, M, L and XL aggregate grades. This allows the applicator to build the base, refine the surface and create handcrafted effects ranging from softly textured mineral finishes to compressed tadelakt-style appearances.

TYPICAL USES

- Decorative continuous finishes on interior and exterior floors and walls.
- Bathrooms, kitchens, terraces and residential living areas when protected with the appropriate LUNIK sealing system.
- Retail, hospitality, offices, reception areas and other pedestrian-use environments.
- Renovation over sound mineral surfaces and firmly bonded ceramic tiles after suitable preparation.
- Stable furniture, counters, shelving and built-in decorative elements.
- Tadelakt-inspired, stone-like, exposed-concrete and other handcrafted effects selected by the applicator.

TECHNICAL DATA

Appearance	White powder
Mixing component	RESILCEM acrylic resin
Maximum aggregate size	S: 0.1 · M: 0.2 · L: 0.4 · XL: 0.5 mm
Compressive strength	>=45 N/mm² at 28 days
Flexural strength	>=10 N/mm² at 28 days
Adhesion strength	>=1.2 N/mm² at 28 days

Values are laboratory guidance figures and may vary with mixing, substrate and curing conditions.

PULSATIA S.L.

Calle Benifaió, 38 · 46610 Guadassuar (Valencia), Spain

Tel. +34 96 052 85 03 · hello@lunik.cc

LIMECOAT

SYSTEM SELECTION AND SURFACE PREPARATION

GRADE SELECTION

LIMECOAT XL / L · BUILD COATS

For levelling and preparation coats. Select XL or L according to substrate texture, regularity and the required build.

LIMECOAT M / S · FINISH COATS

For refining the surface and defining the final handcrafted texture. M gives more movement; S creates the finest, most closed finish.

SUBSTRATE REQUIREMENTS

- The substrate must be stable, cohesive, level and free from dust, grease, oils, laitance, release agents and poorly bonded coatings.
- Concrete and cementitious substrates must have a minimum tensile strength of 1.5 N/mm² and a maximum residual moisture content of 4%.
- Repair cracks, joints, hollows and irregularities. Structural or active cracks require separate assessment.
- Firmly bonded ceramic tiles must be degreased and mechanically prepared; level joints and changes in absorption.
- On floors, always incorporate flexible fibreglass mesh within the preparation coats.

PRIMING AND MOISTURE CONTROL

Select the primer according to substrate porosity and moisture conditions. Where priming is required, use PREPOX or PREPOX W as specified by LUNIK. Rising damp, negative pressure or moisture above the permitted limit must be resolved before application.

RECOMMENDED APPLICATION CONDITIONS

- Apply between 10°C and 30°C under stable environmental conditions.
- Avoid direct sunlight, strong draughts, rain, condensation and rapidly drying substrates.
- Temperature and ventilation affect working, drying and finishing times.

LIMECOAT

MIXING AND APPLICATION

MIXING RATIOS

LIMECOAT XL / L	0.35 kg RESILCEM per 1 kg powder
LIMECOAT M / S	0.40 kg RESILCEM per 1 kg powder

Maintain the stated ratio by weight. Do not dilute the mixture with water.

MIXING PROCEDURE

1. **PREPARE THE LIQUID**

   Measure RESILCEM and disperse the complete pre-measured pigment dose until the liquid colour is completely uniform.

2. **ADD LIMECOAT**

   Add the powder gradually while mixing mechanically at low speed. Continue until the mortar is homogeneous and free from lumps, avoiding excessive air entrainment.

3. **CONTROL EACH BATCH**

   Maintain the same resin ratio, pigment dose, mixing time and application method. Do not alter the ratio or retemper material that has begun to set.

APPLICATION SEQUENCE

1. **PREPARATION COATS**

   Apply one or two coats of LIMECOAT XL or L with a metal trowel. On floors apply two coats and embed flexible fibreglass mesh. Allow to dry and sand with 40-grit abrasive.

2. **FINISH COATS**

   Apply two thin coats of LIMECOAT M or S with a flexible steel trowel. Keep thickness regular and work the final coat according to the desired texture.

3. **FINAL PREPARATION**

   Once dry and lighter in colour, sand gently with 120-grit abrasive unless the selected polished technique requires otherwise. Remove all dust. Total system thickness: 1-3 mm.

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LIMECOAT

DECORATIVE FINISHES, PROTECTION AND HANDLING

FINISHING TECHNIQUES

TADELAKT-STYLE / WET-ON-WET

Apply the next coat once the previous coat is firm and no longer tacky. Compress and polish with overlapping trowel strokes to create a closed, softly marbled mineral appearance. Do not overwork or burn the surface.

WET-ON-DRY

Allow the previous coat to dry completely - approximately 3 hours under standard conditions. Sand lightly with 120-grit abrasive, remove dust and apply the next coat. Drying time varies with site conditions.

pH PREPARATION AND SEALING

Allow LIMECOAT to harden for 24-48 hours and confirm residual moisture is below 5%. Before sealing, apply a suitable LUNIK preparation coat to regulate absorption and compensate the pH of the mineral surface. Once ready, protect with the LUNIK sealers recommended for the intended exposure, traffic and finish.

TOOL CLEANING

Wash tools and equipment with water immediately after use. Once hardened, the material can only be removed mechanically.

SAFETY PRECAUTIONS

Avoid skin and eye contact and inhalation of dust. Wear gloves, safety glasses and suitable respiratory protection during mixing and sanding. Consult the safety documentation.

STORAGE

Store both components for up to 12 months in sealed original containers. Keep the powder dry and protected from moisture. Protect RESILCEM from frost and temperatures above 35°C.

TECHNICAL NOTICE

This information is based on current knowledge and typical applications and is provided for guidance. Site conditions and application practice may affect performance. Carry out preliminary tests and consult the technical and safety documentation for every component of the LUNIK system.

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