MONOCEM

SINGLE-COMPONENT CEMENT-BASED MICROCEMENT

ONE COMPONENT

MIXED ONLY WITH WATER

HIGH ADHESION

1-3 MM SYSTEM THICKNESS

PRODUCT DESCRIPTION

MONOCEM is a one-component cement-based decorative coating supplied as a white powder and mixed only with water. It is designed to renovate and decorate continuous interior and exterior surfaces with a seamless mineral finish.

The range includes four aggregate grades - S, M, L and XL - allowing the applicator to build the base, refine the surface and select the final texture. When installed and protected as a complete LUNIK system, MONOCEM provides strong adhesion and resistance to abrasion, water and common chemical exposure.

TYPICAL USES

- Continuous decorative finishes on interior and exterior floors, walls and ceilings.
- Residential areas, bathrooms, kitchens, terraces and covered outdoor spaces.
- Retail, offices, reception areas, exhibitions and other pedestrian-use environments.
- Renovation over sound mineral substrates and firmly bonded ceramic tiles after suitable preparation.
- Furniture, shelving, counters and similar decorative elements on stable supports.
- Horizontal and vertical applications using the appropriate MONOCEM grade and LUNIK system specification.

TECHNICAL DATA

Appearance	White powder
Mixing water	XL / L: 30% · M: 35% · S: 40%
Maximum aggregate size	S: 0.1 · M: 0.2 · L: 0.4 · XL: 0.6 mm
Compressive strength	≥35 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 water dosage, substrate and curing conditions.

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MONOCEM

SYSTEM SELECTION AND SURFACE PREPARATION

GRADE SELECTION

MONOCEM XL / L · BUILD COATS

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

MONOCEM M / S · FINISH COATS

For refining the surface and defining the final decorative texture. M gives a slightly more pronounced texture; S produces the finest finish.

SUBSTRATE REQUIREMENTS

- The substrate must be stable, cohesive, level and free from dust, grease, oils, laitance, loose material and previous coatings with poor adhesion.
- 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 before application. Structural or active cracks must be assessed separately.
- Ceramic tiles must be firmly bonded, degreased and mechanically prepared. Level joints and changes in absorption before coating.
- On floors, always incorporate a flexible fibreglass mesh within the preparation coats.

PRIMING AND MOISTURE CONTROL

Select the primer according to the 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 with a suitable moisture-control system before applying MONOCEM.

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.
- Low temperatures extend drying; high temperatures shorten working and drying time.

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MIXING AND APPLICATION

MIXING PROCEDURE

1 MEASURE THE WATER

Use clean water and measure the exact quantity required for the selected grade: 30% for XL and L, 35% for M and 40% for S, calculated by weight of powder.

2 DISPERSE THE COLOUR

If the system is pigmented on site, add the complete pre-measured pigment dose to the mixing water and blend until the liquid is completely uniform. Maintain identical water and pigment dosing for every batch.

3 ADD MONOCEM

Add the powder gradually while mixing mechanically at low speed. Mix until the mortar is homogeneous, creamy and free from lumps. Avoid entraining excessive air.

4 CONTROL EACH BATCH

Prepare only the quantity that can be applied before the material begins to set. Do not add extra water after mixing and do not retemper material that has started to harden.

APPLICATION SEQUENCE

1 PREPARATION COATS

Apply one or two coats of MONOCEM XL or L with a metal trowel according to the substrate. On floors, always apply two preparation coats and embed flexible fibreglass mesh. Allow each coat to dry and sand lightly with 40-grit abrasive to remove ridges and imperfections.

2 FINISH COATS

Apply two coats of MONOCEM M or S with a flexible steel trowel. Keep coat thickness regular and avoid excessive pressure or repeated trowelling that could create burn marks or uneven colour.

3 FINAL SANDING

Once the finish has dried and changed to a lighter, uniform shade, sand gently with 120-grit abrasive. Remove all dust before sealing. The recommended total system thickness is 1-3 mm.

CONSISTENCY BETWEEN BATCHES

Use the same water ratio, pigment dose, mixing time and application method throughout the project to minimise shade and texture variation.

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FINISHING, PROTECTION AND HANDLING

FINISHING TECHNIQUES

WET-ON-WET

Apply the next coat as soon as the previous coat is no longer tacky. Sanding between these two coats is not normally required. Remove ridges or excess material carefully with a spatula. After full drying and lightening of the surface, sand gently with 120-grit abrasive.

WET-ON-DRY

Allow the previous coat to dry completely - approximately 3 hours under standard conditions - before applying the next. Sand lightly with 120-grit abrasive and remove all dust before continuing.

pH PREPARATION AND SEALING

MONOCEM must be protected after hardening, normally 24-48 hours after the final coat. Do not proceed until the coating moisture is below 5%. Before sealing, apply a suitable LUNIK preparation coat to regulate absorption and compensate the pH of the cementitious surface. Once ready, protect with the LUNIK sealers recommended for the intended exposure, traffic and finish. Follow the technical data sheets for the complete sealing system.

TOOL CLEANING

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

SAFETY PRECAUTIONS

Contains cement. Avoid skin and eye contact and inhalation of dust. Wear protective gloves, safety glasses and suitable respiratory protection during mixing and sanding. Keep out of reach of children.

STORAGE

Store for up to 12 months in the original sealed container, under cover, in a dry place protected from moisture, heat and direct sunlight. Close partially used containers immediately.

TECHNICAL NOTICE

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

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