

PRODUCT DESCRIPTION

PlekoMortar UM is a cementitious, ready-mixed waterproofing and repairing mortar. Suitable for horizontal or vertical surfaces where waterproofing, levelling and reprofiling of the surface is needed. It is composed of hydraulic binders, selected aggregates, fibers, and special chemical additives. It is easy to use by just adding water, improving on-site quality control.

USES

To repair and protect against water and moisture at foundations, slabs, retaining walls, water tanks, wall floor junctions... particularly suitable to level, rectify, and waterproof uneven or damaged surfaces prior to crystalline waterproofing.

APPROVED SUBSTRATES

Suitable for concrete, masonry and natural stonework.

PACKAGING

25 kg in multiply paper bag.

COVERAGE

Approx 1.8-2.2 Kg/m²/mm depending on application method. Recommended thickness between 6-8 mm for pressure less water impact; 8-12mm for water under pressure. Manufacturer does not warrant square meter coverage, which can vary greatly according to application techniques.

PROPERTIES

- **Easy to use**
- **Economical**
- **For horizontal and vertical surfaces**
- **Superior Workability**
- **Factory Controlled Quality**

TECHNICAL DATA

Appearance	Free-flowing Grayish powder
Aggregate Size	Up to 2mm
Bulk Density (Kg/L ± 0.5)	1.7
Water Demand (%)	12-15
Pot Life (min)	45
Adhesion Strength (N/mm ²)	>1.5
Compressive Strength (N/mm ²)	>25
Flexural Strength (N/mm ²)	>7
Positive Hydrostatic pressure @ 5 bar (50m)	Pass
Negative Hydrostatic pressure @ 3 bar (30m)	Pass

INSTALLATION

SUBSTRATE PREPARATION

Surface must be sound, clean, dry, free of bond-inhibiting materials such as paint, grease, oil, efflorescence, form release agents and curing compounds... Loose or hollow portions should be removed by mechanical treatment. Moisten slightly the substrate with clean water prior to application. Surface should appear damp with no water running

Water leaks must be stopped by using quick plugging mortar such as PlekoPlug.

MIXING

Use a clean container free of all foreign substances for preparing and mixing material. Use a heavy duty electric drill and mixing paddle. Add in small increments while mixing thoroughly to achieve lump-free consistency. Avoid working excessively to prevent air entrapment. Small amount of clean water may be added if necessary to

improve workability, but do not add water once the mixed material starts to harden.

APPLICATION

PlekoMortar UM can be applied using fine mortar spray machine or trowel application. Maintain 6 to 12 mm thick per layer; if higher thickness is required it is recommended to apply a second layer while first is still damp at the surface. First coat should be kept rough or keyed to increase mechanical bond. For manual application a scratch coat is first applied to improve adhesion.

Level the applied material to a uniform thickness within 5 to 10 min of application. Once applied material starts to set float the surface to achieve desired appearance. Do not over trowel the surface.

For small repair areas, cracks, coves, fillets, and shutter ties thick coat (up to 3cm) can be applied in one pass.

CURING

PlekoMortar UM should be cured by keeping damp for a minimum of 5 days; protected from wind, frost and direct sunlight.

LIMITATIONS

Apply only to unfrozen surfaces above 4 °C (40°F). Maintain minimum 4 °C (40°F) ambient temperature for 24 hours after application. Protect from direct sunlight, wind and rain during application

Do not mix with any additive or product unless recommended by Pleko.

Pleko bears no responsibility for the defects due to the improper or non-recommended use of the product.

CLEANING

While still fresh, soluble in water. Clean all equipment with water immediately after use. After hardening, tools should be cleaned mechanically.

STORAGE

Store in cool, dry, well-ventilated area, protected from freeze, heat and direct sunlight and at a temperature between 4°C (40°F) and 38°C (100°F), in tightly sealed original container off the ground. Storage time must not exceed one year.

HEALTH AND SAFETY

Avoid contact with eyes and skin. Prevent inhalation of dust.

The product contains cement powders which, when mixed with water, release alkalis that could be harmful to the skin. It is preferable that the application be done in a ventilated area, and to wear protective gear for hands, eyes and respiratory system and to avoid breathing of the dust. Splashes on the skin should be washed away by cleaning with soap and water. In case of contact with eyes, wash thoroughly with clean water. If swallowed, do not induce vomiting, in both cases seek medical attention.

The product is non-flammable

Attention

This product is intended for use by qualified professional contractors, as a component of a larger construction system and specification. It should be installed in accordance with given instructions and specifications. Information listed above reflects the criteria for our internal quality test and practical experience. Results depend on listed instructions and consumer skills and are therefore out of our responsibility whether expressed or implied. All values are valid for the product when dispatched from the plant. Technical data are generated under laboratory conditions, some variations are expected due to weather, site, and application conditions which are beyond the control of the manufacturer. We reserve the right to change any given specification without notice.