

Kimicover UNO

ST3-0319



Single-component elastic cement mortar for waterproofing



DESCRIPTION

Kimicover UNO is a single-component, elastic and flexible waterproofing mortar, based on cements modified with special alkali-resistant polymers (HSR Technology). Easily applicable both horizontally and vertically, it is characterized by excellent resistance to chemical aggressions caused by sulphates, de-icing salts, acid rain, chlorides.

It meets the requirements of EN 14891 and is CE marked as a protective coating according to 1504-2, MC and IR intervention principles.

ADVANTAGES

- **Performing:** excellent adhesion characteristics and resistance to chemical aggressions, ideal for small surfaces.
- **Easy to apply:** single-component, ready to use with addition of drinking water.

USES

Kimicover UNO is used for the waterproofing of bathrooms, shower trays, small planters and balconies. It is also used for protective elastic smoothing of plasters and concrete structures having micro-cracks caused by shrinkage or which may undergo small deformations own to loads or thermal variations.

WORKS

- Waterproofing and tiling of small balconies (<25 sqm) without joints, not subject to dynamic stresses, even if already tiled (**SA18**).
- Waterproofing and tiling of balconies, terraces with joints (one every 20 sqm of surface)

APPLICATION

	Roller, brush or push broom application		Complete hardening time: 7 days
	Mechanical device application		Mixing water: 5,2 – 5,6 lt/ 20Kg
	Max thickness per coat: 2 mm for horizontal application 2 mm for vertical application Total max. thickness: 4 mm		

The substrates must be clean and mechanically consistent, any holes or irregularities in the substrate must be previously repaired with suitable Kimia products. In case of waterproofing of already tiled surfaces, remove the first row of wall tiles for a height of about 20 cm, perform an acid washing of the surface with **Soluzione P**.

In the case of degraded concrete substrates it will be necessary to check the depth of the degradation and proceed with a proper cortical restoration cycle.

Between 8 and 24 hours prior to the start of operations, the screeds must be treated with a coat of **Kimicover FIX MV** primer.

The points of contact between the screed and the collection wells, the tiles removed, the external edges of the joints, cleaned and possibly rebuilt, will be waterproofed by applying **Kimicover JOINT P** and application of **Kimicover UNO** reinforced with **Kimitech 120** mesh.

The joints between the wall and the floor will be waterproofed by applying **Kimicover JOINT** and applying **Kimicover UNO** reinforced with **Kimitech 120** mesh.

The joints will be waterproofed by laying **Ethafoam**, sealing with **Tecnoseal 130** or **Tecnoseal 88** (which must be left to cure at least 24 hours) before laying **Kimicover JOINT** elastic strip. The distance between the joints must be evaluated on a case-by-case basis depending on the type of substrates and the expected stresses.

To prepare **Kimicover UNO** add drinking water depending on the rheology to be achieved.

Apply a first coat of **Kimicover UNO** reinforced with **Kimitech 350** mesh..

Once hardened, in general not before 24 hours, apply a further coat of **Kimicover UNO** as a finishing.

Do not exceed 2 mm thickness per coat and do not exceed a total of 4 mm thickness. After (minimum) 7 days ceramic tiles can be laid using a powder tile adhesive such as **Aderflex KR** or a finishing coat with **Kimicover BLINDO**.

CONSUMPTION

1,2-1,4 Kg/m²/mm depending on the mixing ratio chosen.

PACKAGING

Bag Kg 20

Pallet 60x20 – 1200 Kg

STORAGE

Store in hermetic containers in a sheltered, dry place. In these conditions the products stability is 12 months.

System properties	Characteristics
Appearance	Grey
Consistency	Plastic

Characteristics	Acceptance limits EN 14891	Typical value
Water impermeability under pressure EN 14891-A.7 (1,5 bar for 7 days positive thrust)	No penetration	No penetration
Crack-bridging ability at +20°C EN 14891-A.8.2 (mm)	> 0,75	0,8
Initial adhesion EN 14891-A.6.2 [MPa]	> 0,5	1,93
Adhesion after water immersion EN 14891-A.6.3 [MPa]	> 0,5	0,55
Adhesion after heating action EN 14891-A.6.5 [MPa]	> 0,5	1,92
Adhesion after frost-thaw cycles EN 14891-A.6.6 [MPa]	> 0,5	0,75
Reaction to fire	Class declared by the manufacturer	F

Characteristics	Limits EN 1504-2	Typical value
Concrete adhesion EN 1542	Flexible systems without trafficking >0,8 Mpa; with trafficking >1,5 Mpa. Rigid systems Without trafficking >1 Mpa; with trafficking >2 MPa.	> 0,8 N/mm ²

Characteristics	Limits EN 1504-2	Typical value
Permeability EN ISO 7783-2	Class I (permeable to vapour) Sd < 5 m	Class I
	Class II 5 m ≤ Sd ≤ 50 m	
	Class III (not permeable to vapour) Sd > 50 m	
Capillar absorption and water permeability EN 1062-3	< 0,1 Kg/m ² ·h ^{0,5}	< 0,1 Kg/m ² ·h ^{0,5}
Reaction to fire class	Declared value	F

WARNING

Product for professional use.

Given the possibility that different supplies of the same raw materials have slightly discordant colors, including a lot of production and the other may be minor color variations that do not affect in any way the technical performance of the products supplied.

Before using, check bags have not been damaged, and do not use the product if there are any lumps.

The equipment used for the application of the product have to be cleaned with water before hardening. Once the product is hardened, it can be removed mechanically.

Avoid the application of the product at temperatures below + 2°C.

Take all necessary precautions for a good curing of the product.

If the application is carried out in conditions of low relative humidity, wind and sun, it is advisable to protect the treated surfaces with protective sheets.

The treated surfaces must be protected from rain, fog or contact with water for at least 24 hours after laying.

The technical specifications and application methods recommended herein are based on our current knowledge and experience and do not represent any form of guarantee of the final results obtainable with the product.

It is the customer's responsibility to check that this data sheet is still effective and has not been replaced with a more recent version, and that the product is suitable for the intended use.

TECHNICAL SPECIFICATIONS

SK18 - Waterproofing and tiling of small balconies (<25 sqm) without joints, not subject to dynamic stresses, even if already tiled

This type of work can be carried out in case of balconies and small terraces, given their small size, they are not subject to dynamic cracks and do not require joints. All joints must be properly calculated by the designer and/or the contractor considering the technical characteristics of the adjacent building materials, the exposure of the building and the construction method adopted. In general, the maximum dimensions above which it is necessary to make fractionation and expansion joints (for which it is therefore appropriate to apply the 50% bicomponent

cementitious system) are: 10 square meters in case of adherent screeds; at least every 15 square meters for floating screeds on rough concrete; at least every 20 square meters for floating screeds on plain concrete or desolidization sheets.

Cleaning (aimed at the total elimination of dust, grease, old varnishes, inconsistent parts, in detachment, not equipped with sufficient mechanical characteristics and any other material that could jeopardize the good anchoring of subsequent work) and possible cortical restoration / smoothing of the support, preliminary treatment of joints and fittings and subsequent waterproofing with Kimicover UNO single-component mortar from Kimia SpA or similar product (consumption not less than 3 kg / sqm), armed with a Kimitech 350 mesh.

The elastic and single-component waterproofing mortar, based on cements modified with special alkali-resistant polymers, will be prepared and applied scrupulously following the indications given on the technical data sheets supplied by the manufacturer and must have the following characteristics:

- Meet the requirements defined in EN 1504/2 and EN 14891; Crack-bridging ability at + 20 ° C EN 14891-A.8.2 (mm) > 0.75;
- Initial adhesion EN 14891-A.6.2 [MPa]: 1.93;
- Adhesion after water immersion EN 14891-A.6.3 [MPa] > 0.5; Adhesion after heat action EN 14891-A.6.5 [MPa]: 1.92;
- Adhesion after frost-thaw cycles EN 14891-A.6.6 [MPa]: 0.75.

The product will be CE marked as a type C second protective coating according to EN 1504-2, MC and IR intervention principles.

For the tiling (to be carried out at the end of the waterproofing curing, in any case not before 7 days) use Aderflex KR by Kimia S.p.A. or similar product. Material consumption will vary between 3 kg/m² and 5 kg/m² depending on the size of the tile.