Kimicover 501

ST5-1111

Waterproofing elastic acrylic resin for roofs, terraces, balconies, with occasional pedestrian traffic. Single component, ready to use product

Description

Kimicover 501 is a single product in water suspension with an elastomeric acrylic base; it can be applied cold to waterproof any type of new covering or covering to be restored.
The product transforms into an elastic, continuous, coloured membrane with excellent resistance to ultraviolet rays and acid rain.
Kimicover 501 adheres to many supports such as concrete, brickwork, fibre cement, roofing felt, wood and plasters.

Uses

Kimicover 501 is used to waterproof weight bearing coverings (both new or in need of repair), to waterproof under roof tiles, guttering fibre cement coverings and walls exposed to beating rain, waterproofing under shingle.

Preparation of the supports

Do all the preliminary preparatory works for a correct application of the product (check the slopes and, where appropriate, make interventions aimed at correcting them).
Particular attention should be paid to the preparation of the support:

- The existing coatings must be controlled, mechanically cleaned and prepared to reach a sound and adherent background. In case of poor adhesion to the substrate, they shall be removed. Any holes or irregularities of the substrate must be first repaired with Kimia products. In case of application on bitumen membranes consult with our technical department. In case of previously tiled surfaces waterproofing, wash the surface with acid SOLUZIONE P, once removed the first row of wall tiles up to a height of 20 cm.
- In case of damaged concrete substrates, check the depth of degradation and proceed with an appropriate repairing cycle. The concrete base, appropriately cured, must be structurally sound (the tensile strength "pull off" of the concrete must be > 1.5 Mpa).
  Each detaching part without enough mechanical properties shall be removed. In order to remove dust sediments, existing coatings, grease, rust, form release agents, paint, cement laitance and any other substances or materials which may affect the adhesion of subsequent coatings, clean the substrate thoroughly by sandblasting, jetting to high pressure, brushing. Deep and extended irregularities (gravel nests etc.) must be first repaired with appropriate mortars, after application of a primer.
- In presence of joints, proceed with appropriate repair cycle (if required).
- The contact points between screed and catch basins shall be waterproofed using Kimicover JOINT P, Kimicover 501 reinforced with Kimitech 120, after application of Kimicover FIX MV primer. Before application of the products the tiles shall be removed and the outer edges of the joints cleaned and rebuilt,
- Joints and connections between walls and floors will be waterproofed using Kimicover JOINT, Kimicover 501 reinforced with Kimitech 120.

Application

Apply the primer with a coat of Kimicover FIX MV, 8 to 24 hours before laying the acrylic coating (this step could be avoided in case of renovation of old bitumen membranes or in case of tiled supports).
Kimicover 501 is a single component product, ready to use, it shall be used diluted with 10% addition of drinkable water, applied by brush, roller or airless pump in at least two crossed coats, the second coat 12 hours after the first one, impregnating a layer of Kimitech 120 fabric in the first coat.
This system is able to grant occasional pedestrian traffic without further protective finishings.
If waterproofing is made on surfaces with eventual extended contact with water (canals, little slope areas) or has to be covered with insulating coatings or others, once Kimicover 501 is cured (3 days at 25°C), apply a double coat of Kimicover 115 by brush or roller.

Support and environmental conditions for the laying and the curing

Avoid the application of the product with a temperature below +10°C. With low temperatures (below +10°C) curing is highly delayed.
Both the substrate and the product must have a temperature of at least 3 ° C above the dew point to reduce the risk of condensation or cool off after laying the membrane.
The humidity of the surface should be max. 4% and there should be no presence of capillary humidity in accordance with ASTM (testing of polyethylene sheet).
Take all necessary precautions for a good seasoning of the product. In the event that the application is carried out under conditions of low relative humidity, wind and sun is advisable to protect the surfaces treated with protective sheets.
The treated surfaces should be protected from rain, fog or from contact with water for at least for the first 24 hours after the application.

Characteristics	Value
Minimum application temperature	+10 °C
Exterior powder a 25°C	1 h
Apparent volumetric mass UNI EN ISO 2811 -1	1,35 ± 0,05 g/cm³
Complete hardening a 25°C	7 days
Freezing time (200g a 20°C)	35 mins
Solid content UNI 8309	69 ± 1 %
Viscosity (a 20°C e 20r.p.m.) UNI 8490-3	500 - 1000 mPa·s
Standard colours	grey,red,white,green

Packaging

Plastic buckets of 5 kg and of 25 kg

Consumption

1,5-3 Kg depending on the porosity of the support.

Storage

Keep out of freezing conditions and store at a temperature no lower than 5°C.
In these conditions and in airtight containers, the product maintains its stability for 24 months.

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Warning

Product intended for professional use.

There may be small differences in color between batches, therefore, if the product is used on large surfaces, organize the installation of the same material lot, or if not possible, apply for rooms or panels defined by dividing lines.

The equipment used for the application can be cleaned with water before hardening (once hardened the product can be removed using Solvente EPOX).

Do not use for the coating of metal roof (in this case, use Kimicover 301).

Set properly placed steam outlet points according to the substrate humidity conditions. Apply air vents after checking the system thermohygrometric conditions of the underlying environment:

- each 40m2 in case of low humidity environments with appropriate layers for steam spreading;
- each 20-25m2 in case of medium humidity environments
- each 15m2 in case of high humidity environments (swimming pools, particular environments, etc.).

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 the product is suitable for the intended use and that this data sheet is still effective and has not been replaced with a more recent version (the most recent version of this data sheet is downloadable through the QR-code present in this document).

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