

Kimifloor ECO-BASE

A mixture of polymers in aqueous emulsion to be used, even when properly loaded, as a base for decorative resin floors



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DESCRIPTION

Kimifloor ECO-BASE is a ready-to-use mixture of polymers in aqueous emulsion, free of lime, gypsum and cement, free of dangerous substances for the user and the environment.

It is available in three "neutral" versions:

- Light, white, suitable for light colored substrates;
- Medium, intermediate color between the two;
- Dark, off-white color, used for dark colors.

The product can also be supplied in different colors according to RAL references.

ADVANTAGES

- Customizable in terms of thixotropy and texture.
- One-component, ready to use.

USES

Kimifloor ECO-BASE is used in apartments, shops, showrooms to create resin floors and walls with material, sponged, cloudy, spatulated effects.

The product can be customized in terms of thixotropy and texture with the addition of suitable Kimifill aggregates.

CERTIFICATIONS

The product can also be supplied in different colors according to RAL references.

It is CE marked as a protective coating according to 1504-2, MC and IR intervention principles.



APPLICATION

	Manual application		Workability time: 4-6 h. Walkable: 24 - 48h.
	Thickness per coat: 1-2 mm for horizontal application		

On the suitably prepared substrate, proceed with the application of the primer Kimicover FIX MV, Kimitech 350 mesh with a coat of Kimifloor ECO-BASE not loaded and, once hardened, the application of a first coat of Kimifloor ECO-BASE with Kimifill aggregates.

Apply the material with a white plastic spatula if you do not want to have dark marks on the applied product (if this effect is required, use metal spatula).

It is advisable not to perform thicknesses greater than 1 mm in a single solution, otherwise, during the hardening process, shrinkage micro-cracks could occur with excessively long drying times.

Later coats will be spread (waiting at least 1 day between one application and another) after sanding, aspiration, and priming with Kimitech K60.

The aggregates added in the last coat of Kimifloor ECO-BASE, if sanding is particularly energetic, could be exposed, with the relative color. Depending on the desired effect, sand so as to highlight them in a more or less marked way. Deep sanding that is not perfectly homogeneous could generate disordered chromatic effects. In this case, it is possible to use a higher colored paint to uniform the color of the surface.

The system is finished by applying Kimifloor ECO-FINITURA one-component polyurethane resin (pigmentable for particular glazes and color effects) or Kimifloor VETRO two-component epoxy (in case of enhancement of the three-dimensionality of material textures or incorporation of particular decorative elements).

All interventions must be protected with a double final coat of Kimifloor ECO-FINITURA PLUS two-component polyurethane water-based diluted 10% with water.

CONSUMPTION

1,6 Kg/m²/mm.

PACKAGING

Cop 25 Kg

Cop 7,5 Kg

STORAGE

The product fears frost. Store in tightly closed containers, in a sheltered and dry place, at a temperature not lower than 10°C. In these conditions it is stable for 8 months. Once the package is opened, use the material within 7 days. Keep the inner edges of the package clean during all the intermediate phases of the application cycle.

CHARACTERISTICS	TYPICAL VALUE
Appearance	Version "Light", "Medium", "Dark": → white color progressively darker. Available colors according to RAL references.
pH	9
Workability time	4-6 h
Hardening	If applied in the average thickness of 1 mm with a temperature of 20 °C and with good ventilation, it dries in 24 hours. The hardening time is strongly influenced by thickness, substrate absorption, temperature and room ventilation.
Water-soluble	Soluble
Fa-soluble	Not soluble
Flammability	Not flammable
Min temperature of application	5 °c (suggested 20°C)
Reaction to fire	Bfl-s1 * (Tests carried out for a 2 mm layer of Kimifloor ECO-BASE and polyurethane finish)
Slipperiness din51130	R 10

* Based on the m.d. 15-03-2005 and additions with the changes introduced by the ministerial decree 16-02-2009, a class bfl-s1 coating can be used along the escape routes, in the atriums, in the corridors, in the corridors, in the stairs, in the ramps, in the passageways in general, in place of the class 1 products in the limits set for them by specific fire prevention provisions.

CHARACTERISTICS	LIMITS EN 1504-2 COATING C, PRINCIPLES MC AND IR	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
Permeability EN ISO 7783-2	Class I (permeable to vapour) Sd < 5 m Class II 5 m ≤ Sd ≤ 50 m Class III (not permeable to vapour) Sd > 50 m	Class I
Water absorption and permeability UNI EN 1062-3	< 0,1 kg/m ² ·h ^{0.5}	< 0,1 kg/m ² ·h ^{0.5}
Reaction class to fire	Declared value	B fl- s1

WARNING

Product intended for professional use.

It is recommended to always carry out a complete sample of the processing so that the customer can understand the peculiarities and effects (texture and color) of the solution that will be adopted.

Take all the necessary precautions for the preparation of the substrate, which must be free of defects and irregularities, already equipped with a vapor barrier, mechanically proper with respect to the intended uses, free of release agents, old paints, oils, loose parts and in detachment phase.

During the application, make sure that the product is cured correctly and completely: despite having a rapid drying, which allows it to be walked on after a few days, the acrylic flooring resins reach optimal resistance with curing, a process that requires long times, depending on the ambient temperatures and humidity.

When creating the resin coating, respect the joints of the structure (which must be treated and sealed with suitable products) and make sure that the original support is not subject to dynamic cracks: otherwise, in correspondence with the joints that are not respected and the cracks required, fractures of the decorative coating are inevitable.

Each intervention is to be considered a work of art in all respects thanks to the manual execution and the irregular, unique and unrepeatable character of each process.

The resin coatings offer wear and impact resistance comparable to that of other materials such as wood, stone etc. Like parquet, resin coatings also read scratches due to messy trampling (pebbles under shoes etc.).

These scratches are more or less visible according to the chosen color (the darker the coatings, the more the scratches will catch the eye), the type of finish (in the case of uniform glossy monochromatic treatments they will tend to be particularly identifiable) and the frequency and aggressiveness of cleaning and maintenance treatments (dirt tends to creep into scratches making them more visible).

By placing adequate filter areas (doormats, very useful to reduce the risk of scratches) to the surfaces with resin coatings, carrying out maintenance with detergents that are not excessively aggressive and applying sacrificial protective layers (glossy or satin waxes), resin floors have a duration comparable to floors made with traditional materials.

In order to maintain its characteristics for a long time, an accurate maintenance and cleaning regime must be provided for each resin floor (to be carried out manually or with a single brush with suitable cleaners according to the level of dirt, presence of waxes etc. etc.).

For further information and advice on safe handling, storage and disposal of chemical products, the user must refer to the most recent Safety Data Sheet, containing physical, ecological, toxicological and other data related to safety. All technical data shown in this Technical Data Sheet are based on laboratory tests. Actual measurement data may vary due to circumstances beyond our control. The information and requirements indicated in this Technical Data Sheet are based on our current knowledge and experience and are to be considered, in any case, purely indicative. They cannot guarantee the final result of the applied product and they have to be confirmed by exhaustive practical applications; therefore the user must test the suitability of the product for the intended application and its purpose. Users must always refer to the latest version of the local technical data sheet related to the product.