Kimitech HLA

Colored self-leveling two-component epoxy resin to create continuous, hygienic and easily cleanable floors



Scheda Tecnica rev.01_05/2025

DESCRIPTION

Kimitech HLA is a two-component epoxy resin with a self-leveling effect, specific for continuous, waterproof, hygienic, washable, decontaminated paints and floors, with excellent adhesion characteristics and excellent resistance to wear and corrosion.

ADVANTAGES

Specific for continuous, waterproof, hygienic, washable, decontaminated paints and floors; excellent adhesion characteristics; excellent resistance to wear and corrosion

USES

Kimitech HLA is used on substrate with a vapor barrier or floors not in contact with the ground and therefore not subject to rising damp to create continuous flooring for pharmaceutical, food, hospitals, laboratories, laundries, canteens, etc...
It can be used as it is as a thick epoxy paint or by mixing it with Kimifill 01-03 (depending on the mixing ratios it is possible to make trowelable or self-leveling coatings).

Kimitech HLA, thanks to its characteristics, is suitable for floors that comply with the HACCP system and the requirements of EC Regulation no. 852/2004 related to the hygiene of food products

CERTIFICATIONS

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

EN 1504-2 CE

HACCP Requirements		
Easy to clean	High sanization	No toxic substances

APPLICATION

	Manual application		Complete hardening time: 7 days
	Mechanical device application		
	Thickness per coat: 1 – 1,5 mm for horizontal application, based on the percentage of charge		

The surfaces to be treated must be blasted or milled, in order to make them compact, clean, free from grease, inconsistent parts, old paints, bitumen and other release agents in general. Pour component "B" (hardener) into component "A" (resin), mix thoroughly with a low-speed drill (200-300 rpm) until you get a perfect mixture, taking care not to incorporate air.
By adding about 100% by weight of Kimifill 01-03 it is possible to obtain a thixotropic primer suitable for the filler smoothing preparatory to the application of further self-leveling thick layers.
By mixing Kimitech HLA with max 50% by weight of Kimifill 01-03, you get a high-thickness self-leveling coating, which can be applied by a notched trowel or toothed rake and fresh rolled with a special bubble breaker once applied.
In case of applications in more than one coat, if there is a time exceeding 24 hours between one coat and another, it is necessary to sand and carefully aspirate the substrate before reapplying the product.

CONSUMPTION

(A+B): 1,7 Kg/m²/mm;
Loaded with 50 % of Kimifill 01-03: 1,3 Kg/m²/mm;
Loaded with 100% of Kimifill 01-03: 1,1 Kg/m²/mm.

PACKAGING

- Com. 6 Kg (A: 5 Kg + B: 1 Kg)
- Com. 30 Kg (A: 25 Kg + B: 5 Kg)

Kimia S.p.A.
Via del Rame, 73
06134 Perugia (Italia)

Tel. +39 075 5918071
E-mail: Info@kimia.it

Website:
www.kimia.it

STORAGE

The product fears moisture, store in tightly closed containers, in a sheltered and dry place. In these conditions it mantains its stability for 24 months.

CHARACTERISTICS	AVERAGE VALUE (PART A)	AVERAGE VALUE (PART B)	AVERAGE VALUE (KIMIFILL 01-03)
Consistency	Fluid	Fluid	Powder
Color	Colored	Pale yellow	Sand
Density	1,99 g/cm³	1,06 g/cm³	-
Solid content	100 %	100 %	100 %
Viscosity type Brookfield UNI 8490-3	(5 r.p.m. - 20°C) 4500 - 4700 mPa·s	(20 r.p.m. - 25°C) 200 - 600 mPa·s	-

CHARACTERISTICS	APPLICATION DATA (A+B)
Mixing ratio by weight	Part a : part b = 5 : 1
Mixture density EN ISO 2811-1	1,75 g/cm³
Application temperature	+5 - +30 °c
Frost time	1h
Flexural strength ASTM D790	At 1 day > 34 MPa At 7 days > 44 MPa At 15 days > 76 MPA
Compressive strength ASTM D695-02a	At 1 day > 55 MPa At 7 days > 75 MPa At 15 days > 76 MPa
Concrete adhesion (EN 1542)	> 2,5 (concrete failure) n/mm²
Tensile strength	> 8 mpa

CHARACTERISTICS	APPLICATION DATA PART A + PART B +KIMIFILL 01-03 (50% BY WEIGHT PART A+B)
Mixing ratio	Part A + Part B + Part C = 5 : 1 : 3
Density EN ISO 2811 - 1	1,87 g/cm³
Application temperature	+5 - +30 °C
Workability time	90 mins
Flexural strength ASTM D790	At 1 day > 34 MPa At 7 days > 44 MPa At 15 days > 76 MPA
Compressive strength ASTM D695-02a	At 1 day > 55 MPa At 7 days > 75 MPa At 15 days > 76 MPa
Concrete adhesion (EN 1542)	> 2,5 (concrete failure) N/mm²
Tensile strength	> 8 MPa

CHARACTERISTICS	APPLICATION DATA PART A + PART B +KIMIFILL 01-03 (100% BY WEIGHT PART A+B)
Mixing ratio	Part A + Part B + Part C = 5 : 1 : 6
Density EN ISO 2811 - 1	1,97 g/cm³
Application temperature	+5 - +30 °C
Workability time	90 mins
Flexural strength ASTM D790	At 1 day > 34 MPa At 7 days > 46 MPa At 15 days > 76 MPA
Compressive strength ASTM D695-02a	At 1 day > 60 MPa At 7 days > 77 MPa At 15 days > 86 MPa
Concrete adhesion (EN 1542)	> 2,5 (concrete failure) N/mm²
Tensile strength	> 8 MPa

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.	> 2 N/mm²
Permeabiliy 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 III
Capillar absorption and water permeability EN 1062-3	< 0,1 Kg/m²·h^{0,5}	< 0,1 Kg/m²·h^{0,5}
Reaction class to fire	Declared value	F

PRODUCT	CONCENTRATION	RESISTANT	RESISTANT FOR SHORT CONTACT
Hydrochloric acid	10%	x	
Soda	10%	x	
Acetic acid	10%	x	
Sulfuric acid	10%		x
Xylene			x
Trichlorethylene			x
Lactic acid			x
Acetone			x
Petrol		x	

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WARNING

Product intended for professional use.
Different batches of the same raw materials have slightly discordant colors, between one batch of production and the other there could be small chromatic variations.
If the product is used on large surfaces (pointing or plastering without a levelling coat), always use material from the same production batch (the use of natural colouring earths may mean that the colour varies slightly from one batch to the next) and arrange so that it can be applied in a continuous manner or, if this is not possible, room by room or area by area to areas that are defined by clean cuts such as string courses, corners, etc.
In the case of fractionated mixing, respect the ratio by weight (not volume) indicated on the packages.
For applications on ceramic surfaces, consult our Technical Department.
Check the integrity of the package before use and do not use the product with lumps.
The equipment used for the preparation and laying of the product must be cleaned with Solvente EPOX before hardening.
Handle with care: use gloves, protective creams and goggles to avoid contact with skin and eyes.
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. 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.

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