

# Kimitech K40 AP Bianco

Solvent-free white bicomponent epoxy resin, for protective painting of r.c. works, resin floors and coatings, suitable for contact with drinking water



Scheda Tecnica rev.01\_05/2025

## DESCRIPTION

Kimitech K40 AP Bianco is a two component epoxy resin solvent free, highly adhesive, resistant to hydraulic counterthrust with excellent resistance to chemical agents.

## ADVANTAGES

Performing: solvents free; highly adhesive; resistant to chemical agents.

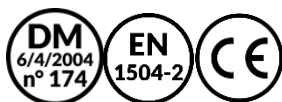
## USES

Protection from chemical attacks.

- Non-toxic coatings of tanks intended to contain drinking water (it is tested according to the M.D. 174/2004)
- Protective painting of concrete works subject to chemical or physical aggression (channels, pipes and manifolds for sewers, tunnels, purification plants).

## CERTIFICATIONS

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



## APPLICATION

|                                                                                   |                                                                                             |                                                                                     |                                 |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------|
|  | Roller or brush application                                                                 |  | Complete hardening time: 7 days |
|  | Mechanical device application                                                               |                                                                                     |                                 |
|  | Thickness per coat:<br>< 1 mm for horizontal application<br>< 1 mm for vertical application |                                                                                     |                                 |

Kimitech K40 AP Bianco it is supplied in two pre-dosed containers (A + B), of which the "B" part is oversized to allow an easy mixing. To prepare the material, pour component "A" into component "B", mix thoroughly with a low-speed drill (200-300 per minute) until you get a perfect mixture; the mixture must be diluted with about 15-20% of clean water. Mix a quantity of product not exceeding that which can be applied within the frost time. In case of fractionated mixing, respect the ratios by weight (not by volume) indicated in the packages.

In applications where compliance with the regulations of the Ministerial Decree 174/2004 is required, the substrates that will be coated with Kimitech K40 AP Bianco must be previously skim coated with Betonfix 300, rounding the corners between wall-floor and wall-wall.

Once prepared, the product must be applied in min. two coats by brush, roller or sprayed with an airless pump. Wait at least seven days before filling the tank with water.

In case of continuous non-toxic coatings of walls in industries, the substrate must be compact, free from oils, greases, old varnishes and any other material that may affect the good anchoring of the resin coating.

Any leveling must be carried out with Betonfix RS or Betonfix R30, rounding the corners between wall-floor and wall-wall.

If you intend to make a colored paint, it is feasible to get a non-slip surface by freshly dusting the surface of the first coat of the transparent polyurethane finish, applied with Kimifill 01-03 and vacuuming the encapsulated quartz the next day before finishing the work with the last coat of

protective polyurethane.

In case of applications in more than one coat, if there is a time exceeding 24 hours between one coat and the next, it is necessary to sand and carefully aspirate the substrate before reapplying the product.

## CONSUMPTION

Protective painting: 0,2 Kg/m<sup>2</sup> per coat.

## PACKAGING

Com 5 Kg (A: 1 Kg + B: 4 Kg)

Com 25 (A: 5 Kg + B: 20 Kg)

## STORAGE

In hermetically sealed containers, in sheltered and dry places, its stability is 24 months.

Store the packages on the ground and in rooms without sudden temperature changes.

In case of low storage temperatures or sudden changes in temperature, the "A" part of the material could be subject to crystallization (assuming a white-opalescent appearance with a lumpy consistency), in this case heat the pack at about 50° C for 1-1,5 hours until all the crystalline germs have completely dissolved. This procedure absolutely does not alter the characteristics of the material, which therefore, once restored to the correct fluidity, can be mixed and used.

As for transport, place the containers in the central area of the means of transport, covered with heat-insulating material.

| CHARACTERISTICS OF THE PRODUCT      | AVERAGE VALUE (PART A)        | AVERAGE VALUE (PART B)        |
|-------------------------------------|-------------------------------|-------------------------------|
| Consistency                         | Fluid                         | Paste                         |
| Color                               | Pale yellow                   | White                         |
| Density<br>EN ISO 2811-1            | 1,12 ± 0,05 g/cm <sup>3</sup> | 1,80 ± 0,05 g/cm <sup>3</sup> |
| Viscosity<br>(20°C/gir4/100 r.p.m.) | 1000 - 1200 mpa·s             | 3000 - 4000 mpa·s             |
| Solids content<br>EN ISO 3251       | 100 %                         | 70 %                          |

| CHARACTERISTICS                                                                                                     | APPLICATION DATA (A+B)                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Mixing ratio                                                                                                        | Part a : part b = 1 : 4                                                                                                                 |
| Mixture consistency                                                                                                 | Fluid paste                                                                                                                             |
| Density of the mixture                                                                                              | 1,56 g/cm <sup>3</sup>                                                                                                                  |
| Viscosity type Brookfield (300 r.p.m. and 25°C) UNI 8490-3                                                          | 100 - 120 mpa·s                                                                                                                         |
| Frost time                                                                                                          | 1h                                                                                                                                      |
| Complete hardening                                                                                                  | 7 days                                                                                                                                  |
| Min. Temperature of application                                                                                     | + 5 °C                                                                                                                                  |
| Overall migration test in distilled water after 10 days at 40°C performed according to the test method mentioned in | 35 mg/Kg < 60 mg/Kg (limit set by M.D. 21.03.73 and amendments to establish suitability for contact with foods for which the use of the |

|                       |                                         |
|-----------------------|-----------------------------------------|
| M.D. 26/04/93 ALL 3/B | simulant used in the test is envisaged) |
|-----------------------|-----------------------------------------|

| CHARACTERISTICS                                         | LIMITS EN 1504-2 COATING C, MC AND IR PRINCIPLES                                                                                                          | TYPICAL VALUE                             |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Concrete adhesion<br>EN 1542                            | Flexible systems without trafficking >0,8 Mpa;<br>with trafficking >1,5 Mpa.<br><br>Rigid systems without trafficking >1 Mpa;<br>with trafficking >2 MPa. | > 2 N/mm <sup>2</sup>                     |
| Permeability<br>EN ISO 7783-2                           | Class I (permeable to vapour) Sd < 5 m<br><br>Class II 5 m ≤ Sd ≤ 50 m<br><br>Class III (not permeable to vapour) Sd > 50 m                               | Class I                                   |
| Capillar absorption and water permeability<br>EN 1062-3 | < 0,1 Kg/m <sup>2</sup> ·h <sup>0.5</sup>                                                                                                                 | < 0,1 Kg/m <sup>2</sup> ·h <sup>0.5</sup> |
| Reaction class to fire                                  | Declared value                                                                                                                                            | F                                         |

## WARNING

Producto destinado a uso profesional.

Antes del uso, compruebe que el envase siga entero y no utilice el producto con grumos que no se diluyan.

Las obligaciones de marcado no están vinculados a la naturaleza intrínseca de un dato del producto, sino al empleo por el que un específico material es utilizado: antes de efectuar el pedido a Kimia, es el cliente que se encargará de mostrar todos los papeles disponible a la dirección de obras para que establezca si los materiales son apropiados (en términos de certificaciones de aplicación) en relación al empleo al que están destinados.

Para obtener información y consejos sobre la manipulación, el almacenamiento y la eliminación seguros de productos químicos, el usuario debe consultar la Ficha de Seguridad más reciente, que contiene datos físicos, ecológicos, toxicológicos y otros datos de seguridad relacionados.

Todos los datos técnicos que se muestran en esta Ficha Técnica se basan en pruebas de laboratorio. Los datos de medición reales pueden variar debido a circunstancias fuera de nuestro control.

La información y los requisitos que indicamos en esta Ficha Técnica se basan en nuestro conocimiento y

esperienza attuali y deben considerarse, en todo caso, puramente indicativos. No pueden implicar ninguna garantía por nuestra parte sobre el resultado final del producto aplicado y deben ser confirmadas mediante exhaustivas aplicaciones prácticas; por lo tanto, el usuario debe probar la idoneidad del producto para la aplicación prevista y su propósito. Los usuarios siempre deben consultar la versión más reciente de la ficha técnica local del producto.