

# DECO EPOX W BI (A+B)

## Bicomponent epoxy water-based resin

### DESCRIPTION

Deco Epox W BI Isoplam® is a transparent bicomponent (A+B) water-based epoxy resin for concrete surfaces, natural stones, plasters that need protection and strengthening.  
Deco Epox W BI impregnates treated surfaces making them strong and almost completely waterproof without creating a superficial film.

### FIELDS OF USE

Deco Epox W BI Isoplam® is used on various types of substrates:

- old and new cement industrial floors, concrete, plaster, limestone as a consolidant;
- dusted industrial floors as an anti-dust agent;
- dusted industrial floors to improve their waterproofing and resistance to abrasion and resistance to oils, greases and aggressive products;
- porous and highly absorbent substrates, as an absorption uniformizer before the application of epoxy primers in the Microoverlay and Skyconcrete cycles.

### PROPRIETIES

Deco Epox W BI Isoplam® has these features:

- it has an excellent impregnating power on porous surfaces, avoiding their chalking;
- it is easy to apply;
- it improves the resistance to abrasion and to chemical aggressions;
- it slightly enhances the color of the support;
- it does not form a film;
- it improves the water resistance of the surfaces, permitting at the same time the transpiration of the support;
- it extends the duration of the flooring;
- it facilitates the cleaning of the surface;
- it does not contain solvents and it can be diluted with water, improving the conditions of the operator that applies it.

### APPLICATION

*Support preparation.*

The surface to treat must be ready, dry, clean, dust-free and without oil or grease stains (which can be removed with Isoplam® Plam Super Cleaner).

Let the support dry as much as possible, so that Deco Epox W BI impregnates it.

Deco Epox W BI penetrates and operates better on porous surfaces: so it is recommended to sand slightly the surface with a fine grained disc.

#### *Preparation of the product.*

Pour component B in component A and mix slowly for 3-4 minutes with a drill mixer (pay attention to incorporate as less air as possible because this would cause the creation of microbubbles when applied). Add some water slowly, always keeping mixing, until the mixture will become whitish and uniform. It is recommended to pour the mix as obtained in another container in order to insure to not have any residue of denser product on the bottom, the product must be well mixed and appropriate Isoplam<sup>®</sup> mixers are to be used.

The dosage of component A and component B are 1:2 (eg 1 kg of A + 2 kg of B), what changes is the dosage of water. Below are some examples for different types of supports and finishes:

- 1) *Use as an **absorption smoother** on porous and absorbent supports before the application of epoxy primers in Microoverlay or Skyconcrete cycles.*  
Apply a coat of diluted product. The recommended dilution ratio is:  
A:B:WATER = 1:2:16 (the 16 parts of water are calculated on component A)  
Eg. 1 Kg A + 2 kg B + 16 Lt water
- 2) *Use as a **consolidating agent** on concrete surfaces, plasters and calcareous stones.*  
Apply a coat of diluted product. The recommended dilution ratio is:  
A:B:WATER = 1:2:16 (the 16 parts of water are calculated on the component A)  
Eg. 1 Kg A + 2 kg B + 16 Lt water  
If the support is particularly porous, apply a second coat of product with the same dilution after about 12 hours.
- 3) *Use as an **anti-dust finish** on **industrial** or **Nuvolato** concrete floors with medium porosity.*  
Apply two coats of diluted product.  
The recommended ratio for the first coat is:  
A:B:WATER = 1:2:9 (the 9 parts of water are calculated on the component A)  
Eg. 1 Kg A + 2 kg B + 9 Lt water  
After about 12-18 hours apply the second coat. The recommended dilution ratio for the second coat is:  
A:B:WATER = 1:2:6 (the 6 parts of water are calculated on the component A)  
Eg. 1 Kg A + 2 kg B + 6 Lt water

In all cases the dose of water can be increased to allow better penetration of the mixture into the support. In general the more the support is closed (not porous), the more the dose of water will increase.

In case of partial use of the package, components A and B must be accurately dosed by weight and not by volume, according to the ratios indicated on the label. The unused mixture must not be placed in closed packages but disposed.

#### *Application.*

Apply by spray if used as a dustproof finish; with brush, roller or spray, for all other types of work, taking care not to create excess material.

Tools should be cleaned immediately after use with water.

#### *Notes.*

Isoplam<sup>®</sup> Deco Epox W BI cannot be applied on wet surfaces, immature surfaces, or when temperatures are lower than +10°C or higher than +35°C.

## TECHNICAL PROPRIETIES

DESCRIPTION	
Physical aspect of the product: A+B Mixture A+B+WATER	Yellowish liquid Milky liquid
Hardened film appearance	Trasparent
Specific weight: A+B mixture	1,0 kg/dm <sup>3</sup>
A+B mixture ratio	50+100
At 20°C: Time of use Dust dry Complete hardening	60 minutes (30 minutes if 30°C) 24 hours 10 days
Time between coats	12-24 hours, depending on environmental conditions

## CONSUMPTION

Depending on the absorption degree of the support, the consumption varies from 30 to 90 g/m<sup>2</sup> per coat (non-diluted product).

## PACKAGE AND STORAGE

Isoplam® Deco Epox W BI is supplied in packages of 6 kg (the ratio is A=2kg; B=4 kg). In its sealed, stored in a protected place, original packages, the products remain unaltered for one year if stored in closed places with temperatures between +10°C and +30°C. The expiry date is indicated on the package.

## SAFETY

Consult the Safety Data Sheet before use. Deco Epox W BI is intended for professional use only.

### IMPORTANT:

All information contained in this sheet is based on the best practical and laboratory experiences. It is the customer's responsibility to verify that the product is suitable for the intended use. The manufacturer declines all responsibility for the results of incorrect applications. It is advisable to always carry out tests on small surfaces before application. This sheet replaces and cancels previous ones. Data can be changed at any time. We also remind you that Isoplam products are intended for professional use and that Isoplam provides for the regular training of its customers who request it. Anyone who uses these products without being qualified does so at his own risk.