

DECO EPOX TRASPARENTE

Transparent epoxy coating for food-based environments

DESCRIPTION

Deco Epox Trasparent for Food Isoplam® is a transparent, two-component resin. It is composed of epoxy resins with high mechanical strength and excellent chemical resistance. Deco Epox Transparent for Food Isoplam® is used as a finish for floors and walls in cycles intended for the protection of cement, metal and multilayer resin supports. Meets the requirements of the UNI 11021 standard "Products and systems for painting environments in the presence of Food" and complies with the requirements of the HACCP self-control system. It is CE labelled according to the UNI EN 13813 standard.

APPLICATION FIELDS

Deco Epox Transparent for Food Isoplam® is used as a finish in cycles intended for the protection of cement and iron supports.

Given its water-based formulation, free of solvents, plasticisers and tar derivatives, its characteristic of non-flammability, Deco Epox Transparent for Food is suitable for painting Flooring intended for the processing of food products where compliance with the HACCP system and therefore require ease of cleaning and decontamination.

It is widely used for: - flooring and coating of environments for food processing and storage: dairies, meat processing industries, bakeries, food in general, canteens, kitchens, warehouses... - flooring and coating of rooms where ease of cleaning is required such as bathrooms, changing rooms, gyms, swimming pools, spas, health facilities, hospitals, schools... - flooring and coatings that require high chemical resistance finishing such as those of wine cellars, chemical and pharmaceutical industry, paper industry, textile, tanning and mechanical industry, galvanics and accumulators... - multi-layer flooring that require a high wear-resistant finish such as: production departments and warehouses Of industries, logistics...

CARATTERISTICHE E VANTAGGI

Deco Epox Transparent for Isoplam® Food has the following characteristics:

- Increases resistance to abrasion, impact, wear, incision and chemical aggression;
- It is waterproof and easily cleanable;
- It is at very low shrinkage;
- It can be applied at low or high thickness;
- It can have a smooth or non-slip finish;
- It has excellent adhesion to most of the supports if adequately prepared;
- It is also applicable vertically (additised with Vertical Tixo Isoplam®);
- It does not contain solvents and is odourless, thus improving the conditions of the operator who applies it;
- It is not flammable.

Note: contact with acidic solutions could cause a change in the colour of the coating which is however only an aesthetic factor and does not compromise the mechanical and chemical resistance characteristics.

HOW TO USE

Environmental conditions

The application temperature must be between 5°C and 30°C and the ambient relative humidity must be less than 80%. Do not apply, if there is a possibility of condensation, for as long as necessary for the drying of the product.

Preparation of the bottom

- The support must be mature, dry (humidity <5%), compact, clean (free of oils and grease), without cracks, dust and cement jibs. Putty any cracks or holes that should be present on the surface and let them dry completely.

To increase adhesion, it is recommended to roughen the support by sandblasting, sanding, sanding or washing with Plam Apripori Isoplam®.

- Metal supports must be oil-free and sandblasted to SA grade 2.5 or ground or scraped with a metal brush.

Primer

- On the metal supports, apply Iso Zinc Primer Isocolour® and let it dry.

- On the supports made of multilayer resin, apply a coat of Skyprimer Isoplam® sown with grain quartz 0.1-0.5 or 0.3-0.8; once dry, sand to eliminate the harshness of the quartz and reduce the consumption of the finish, vacuum the powders and then apply Deco Epox Transparent for Food. Roller application is also possible: in this case an orange peel finish will be obtained.

- On the vertical cement supports apply a coat of Skyprimer diluted with Epoxy Diluent and applied with a flat-haired roller; proceed immediately with dusting Quartz 0.1-0.5; once dried, sand and vacuum the excess quartz.

- Apply two coats of chemical vapour barrier Vapor Barrier Isoplam® on cement supports with the presence of rising moisture.

- On cement supports generally apply a coat of Skyprimer Isoplam® sown with grain quartz 0.1-0.5; once dry, sand to eliminate the harshness of the quartz and reduce the consumption of the finish, suck up the powders and then apply Deco Epox Transparent for Food. Roller application is also possible: in this case an orange peel finish will be obtained.

In any case, always consult the Isoplam Technical Office for the evaluation of the most suitable product.

Product preparation

Deco Epox Transparent for Food Isoplam® is a two-component product: the catalysis ratios between the two components must be respected and measured by weight according to the mixture ratio A+B=100+60.

Thoroughly mix the individual components A and B.

Pour component B into component A and mix thoroughly with a drill at low revolutions, so as not to incorporate air, for about 3-5 minutes and dilute with 10% food-grade ethyl alcohol.

In the case of vertical applications, add Vertical Tixo Isoplam® to the mixture in percentage of 2-5% by weight of component A.

In case of partial use of the packages, the two components must be carefully measured by weight (not by volume) in the proportions indicated on the label. Any unused mixture should never be placed in closed containers but disposed of.

Application

Depending on the type of support, the desired finish and the intended use of the surface, the product can be applied with a spatula, brush, roller or airless, in one or two coats according to the methods and consumption indicated below:

- on multi-layer coating: apply with an American treed in a single coat (consumption 0.5-0.9 Kg/m²);

- on epoxy screed: apply with American treed in two hands (first coat consumption 0.5 Kg/m², second coat 0.4 Kg/m²);

- as painting on cement supports in general: apply one or two coats by roller (consumption 0.2-5 Kg/m² per coat) or by airless spray one or two coats (consumption 0.3-0.5 Kg/m² per coat).

Any second coat must be applied within 48 hours of the application of the first. If more than 48 hours have passed since the first application, it will be necessary to sand the surface with a sandpaper disc or a 120 grain mesh disc before performing the second coat of painting.

Clean the equipment with Epoxy Diluent.

Complete hardening will occur after 7 days (at a support temperature >10°C).

TECHNICAL CHARACTERISTICS

DESCRIPTION	VALUE
Colour	Transparent
Mixing ratio A+B	100 parts A + 60 parts B (i.e. 10:6)
Pot life at 20°C	30 minutes
Recoating time	24–36 hours
Drying time at 20°C – dust-free	6–7 hours
Complete curing time	7 days
Mix density (specific gravity)	1.100 ± 0.100 kg/L
Viscosity of A+B mixture	850–900 cP (A+B)
Compressive strength	50 N/mm ²
Flexural strength	90 N/mm ²
Shore D hardness	81

Consumption

- On multi-layer coating: consumption 0.5-0.9 Kg/m² for applications with American trattazzo in a single coat.

- On epoxy screed: first hand consumption 0.5 Kg/m², second hand 0.4 Kg/m² for applications with American titre in two hands.

- As painting on cement supports in general: consumption 0.2-0.5 Kg/m² per coat for roller applications or consumption 0.3-0.5 Kg/m² per coat for airless spray applications.

PACKAGING, COLOURS AND STORAGE

Deco Epox Transparent for Food Isoplam[®] is available in 16 Kg packs (A=10 Kg; B=6 Kg).

In original packaging, sealed and stored in a protected place, the products remain unaltered for 18 months if kept in a closed environment with a temperature between 10°C and 30°C. The expiration date is shown on the packaging.

Security

Consult the safety data sheet before use.

The products that make up the Deco Epox Transparent for Food cycle are intended for professional use only.

IMPORTANT:

All the information contained in this card 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 card replaces and cancels the previous ones. The data can be changed at any time. Please also note that Isoplam products are intended for professional use and that Isoplam provides periodic training of its customers who request it. Anyone who uses these products without being authorised, does so at their own risk.