

VAPOR BARRIER

Three-component Epoxy-cement anchoring

DESCRIPTION

Vapor Barrier Isoplam® is a three-component water-based epoxy cementitious product for making shaves before applying the products of the Microoverlay™ Isoplam® system (in the presence of supports with thrust moisture or ceramic), of the Plam Spray Isoplam® system (in the presence of supports with thrust moisture or ceramic), of the Isoplam Draining Gravel system® (in the presence of supports with thrust moisture or ceramic), of resinous systems based on epoxy or polyurethane and of paint products in general.

It ensures an effective negative-thrust moisture barrier.

ADVANTAGES

Vapor Barrier Isoplam®:

- it is easy to use;
- it is also applicable on wet media;
- can be overpainted with any resin cycle (epoxy, polyurethane, epoxy polyurethane...) or self-leveling;
- it is an ideal base for making waterproofing coatings;
- it is water-based: it has a low environmental impact;
- it is odorless: it can also be applied indoors;
- constitutes a barrier to chemical vapor: solves rising humidity problems (resists counter-thrust of water);
- it is impermeable to water but permeable to water vapor;
- adheres even on very smooth and unseasoned concrete surfaces, on natural stones, bricks, ceramics, marble...;
- resists contact with seawater;
- is an excellent membership promoter;
- it is an absorption uniformant for cycles involving the use of resins.

SURFACE PREPARATION

The support must be cleaned of oils, resins, dirt, waxes, efflorescence, boyacs and must be well cohesive and non-friable. Any pre-existing foreign substances on the surface will be removed by sanding, milling, sandblasting, shot peening and hydrowashing.

Any holes, holes, quibbles etc. will need to be repaired by loading Vapor Barrier Isoplam® with Isoplam Fine Quartz®.

Any waterlogging will have to be removed.

The temperature of the support must not be less than +3°C from the dew point and the maximum humidity must be less than 80% UR

APPLICATION

Preparation of the mixture.

Vapor Barrier Isoplam® is supplied in the three pre-dosed components that must be joined at the time of use (shake the individual components well before mixing them together).

Add the comp. B to comp. A and mix well with a low-speed drill until the mixture is smooth. Slowly add, always stirring, the comp. C until a uniform dough is obtained (mix for about 3 minutes). The product thus obtained can be used as is or loaded up to a maximum of 15% with Quartz 0.1-0.5 Isoplam® (in case of particularly rough supports).

Once mixing is complete, it is possible to dilute the mixture with max 15% water if Vapor Barrier is used as a primer using a brush, roller or airless. If the product is used to fill small holes, it can be diluted with max 5% water and loaded with max 15% quartz 0.1-0.5.

The product, in its function as a vapor barrier, should be applied, leveling it by means of a spatula, in two thin layers, taking care to dry the product between one application and the next as indicated in the table. In the first layer, the insertion of the Isoplam® fiberglass mesh without overlapping can be foreseen. Clean work tools with water as soon as possible.

TECHNICAL FEATURES

Vapor Barrier meets the requirements of the regulations:

European Regulation EU no. 305/2011

European Regulation EU no. 574/2014

CE marking according to EN 1504-3

	Comp. A	Comp. B	Comp. C
Appearance & Color of the mixture	Off-white pasta		
Mix ratio	100	31,6	131,60
Packaging content	3,8 kg	1,2 kg	5 kg

<i>Product features & workability</i>	
Specific weight	1,7± 0,5 Kg/L
dry residue	77 ± 1% in volume
Workable dough duration	
at 20°C	approx. 60 minutes
at 10°C	approx. 90 minutes
at 30°C	approx. 45 minutes
Hardening time:	
dry to the touch	6-8 hours
pedestrianization	18-24 hours
completely hardened	7 days
Thickness of application	0,2 ÷ 2 mm
Waiting time for application between hands:	
at 20°C	between 24 hours and 5 days
at 10°C	between 48 hours and 5 days
at 30°C	between 24 hours and 5 days
Overpaintability	Ca 48 ore
Application temperature	+10°C++30°C
Application	Manual
Consumption	
as primer	ca 0,5 Kg/mq
as a skim coat	ca 1 kg/mq + 0,3 kg/mq of quartz
<i>Performance features</i>	
<i>Product performance</i>	
Viscosity Brookfield (ASTM D 2196)	50.000 ± 10.000 cPs
Compressive strength (EN 12190)	32 N/mm ² - Classe R3
Ion content Chloride (EN 1015-17)	0,007%
Direct traction adhesion (EN 1542)	3,47 N/mm ² or substrate breakage
Elastic modulus (EN 13417)	24393 N/mm ²
Coefficient of thermal expansion (EN 1770)	0,00002 m/m°C
Hydrostatic pressure resistance (UNI 8298-8)	250 kPa (2.5 Bar): no water passage
Fire reaction (EN 13501-1)	Euroclass F
Dangerous substances (EN 1504-3)	Complies with 5.4

The data expressed may vary depending on the specific construction site conditions: temperature, ventilation, humidity, support.

CONSUMPTION

Consumption varies according to the condition of the medium, the way of application and the purpose of use.

When used as a latching primer consumption ranges from 0.5 kg to 1 kg per sqm.

When used as a vapour barrier the product should be applied in two layers and its overall consumption ranges from 1 kg (without Isoplam glass fibre mesh®) to 1.5 kg per m2 (with Isoplam glass fibre mesh®). Particularly rough supports require higher overall consumption, from 1.5 to 2 kg/m2 (it is recommended to add Quartz 0.1-0.5 up to a maximum of 15%).

PACKAGE, STORAGE AND SAFETY

Vapor Barrier Isoplam® is supplied in packs of Kg 10 (A+B+C).

Store at 10°C to 35°C. He fears the frost.

In the original packages, closed and properly stored, the products remain unchanged for 12 months.

The production date of the components is shown on the packaging: the last six digits of the batch number indicate month and year.

Consult the safety data sheet before use.

IMPORTANT

All information in this sheet is based on best practical and laboratory experience. E' customer responsibility to verify that the product is suitable for the intended use. The manufacturer disclaims any responsibility for the results of incorrect applications. It is recommended to always test on small surfaces before application. Data can be varied at any time. This tab replaces and cancels the previous ones.

Isoplam products are intended for professional use. Isoplam Srl periodically organizes courses for its clients who request them. Anyone who uses these products without being enabled to do so at their own risk.