

VAPOR BARRIER

Three-component Epoxy-cement clinging

DESCRIPTION

Isoplam® Vapor Barrier is a three-component water-based epoxy-cement for skimming before applying Isoplam® Microverlay™ (in case of wet or ceramic surfaces), for Isoplam® Plam Spray system (in case of wet or ceramic surfaces), for Isoplam® Epoxy Drain (in case of wet or ceramic surfaces), for epoxy or polyurethane-based resins and for paint products.

ADVANTAGES

Vapor Barrier Isoplam®:

- is easy to use;
- may be applied also on wet surfaces;
- is over-paintable with any cycle of resin (epoxy, polyurethane, epoxy-polyurethane) or self-leveling;
- is ideal to realize waterproof coatings;
- is water-based: low environment impact;
- is odorless, so it is applicable in closed spaces;
- forms a vapor barrier: it resolves water counterthrust problems;
- adheres on very smooth and not cured cement surfaces, on natural stones, bricks, ceramic, marble...;
- facilitates adhesion;
- is an absorbing equalizer for resin cycles;
- using only compound A and B, it is a non-toxic paint, suitable for the use in contact with food or potable water.

SUPPORT PREPARATION

The surface must be free from oil, resin, wax, dirt and efflorescences and it must be intact and without any crumble. Any other substance must be removed by sanding, peening, pressure washing, milling. Holes, cracks, etc. must be repaired by adding Isoplam® Quartz Fine to Isoplam® Vapor Barrier. Remove stagnate water.

APPLICATION

Mix preparation.

Isoplam® Vapor Barrier is supplied in three pre-dosed components that will be mixed before use. Add component B to component A and mix thoroughly with a slow mixer to obtain an uniform compound. Slowly add, while mixing, component C until the compound is uniform (mix for about 3 minutes). The resulting product may be used as it is or added with Quartz Fine Isoplam® up to 30% or diluted by up to 10% water.

The product is applied by smoothing it with a trowel, in two thin coats, being careful to let the product dry between the applications as shown in the table. In the first coat the Isoplam® Fiberglass Net may be inserted. Clean tools with water right after use.

FEATURES

	Comp. A	Comp. B	Comp. C
Appearance & Color	Semi-thick white liquid	White liquid	White powder
Mix ratio	4	4	8

Volumetric mass (Reg. EN2811-1)	1,75±0,05 Kg/Lt	1,00±0,05 Kg/Lt	1,35±0,05 Kg/Lt
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<i>Product features & workability</i>	
Volumetric mass (Reg. EN2811-1)	1,60±0,01 Kg/Lt
Mix workable duration at 20°C	≈ 60 – 80 minutes
Thickness of application	≈ 0,5 mm (2 coats)
Dry on touch	≈ 10 – 12 hours
Waiting time between coats	≈ 48 hours
Completely dry	≈ 7 – 10 days
Application temperature	+10°C - +35°C
Application	Manual
<i>Performance features</i>	
<i>Product performance</i>	
Class & typology (reg. EN 1504-2)	C PI-MC-IC-PR
Water vapor permeability (Reg. 7783-1)	Sd<5 m – class I
Adherence test (Reg. EN 1542)	≥1,5 MPa
Capillarity water absorption (Reg. EN 1062-3)	W < 0,01 Kg/mq·h0,5
Abrasive resistance (Reg. EN 5470-1)	80 mg
CO2 Permeability (Reg. EN 1504-2)	-30°C - +90°C
Thermal resistance – operational temperature	-30°C - +90°C
Dangerous substances (Reg. EN 1504-2)	I.A.W. note ZA.1

Those data may vary in function of the conditions of the construction site: temperature, ventilation, humidity and substrate.

CONSUMPTION

The consumption may change depending on the application method, on the surface conditions and on its intended use. If used as clinging primer, the consumption is between 0,7 kg-1 kg/m². If used as vapor barrier, the product has to be applied with two coats and the consumption is between 1 kg (without Isoplam® Fiberglass Net) and 1,5 kg/m² (with Isoplam® Fiberglass Net).

PACKAGE AND STORAGE

ISOPLAM® VAPOR BARRIER is supplied in bags of 17kg (A+B+C). Store at a temperature between 10 ° C and 35 ° C. Keep away from frost. The expiry date of the product is shown on the packaging: the last six digits of the lot number indicate month and year. Consult the Safety Data Sheet before use.

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IMPORTANT:

The product VAPOR BARRIER is intended for the use as indicated above. Adding any other product will impair the final result. All information contained herein is based on the best practical experiences and laboratory research. It is the customer's responsibility to determine whether the product is suitable for the intended application. The manufacturer declines all responsibility on the results due to incorrect application of its products. The product shall always be tested on a small area before full scale application. This data sheet replaces all previous data sheets. ISOPLAM reserves the right to change the data on the data sheet at any time. VAPOR BARRIER is intended for professional use only. ISOPLAM provides frequent and on demand trainings for its customers. The use of ISOPLAM products without receiving the proper certification will be at the customer's own risk.