

# SKYPRIMER

## Epoxy primer for Skyconcrete®

### DESCRIPTION

Skyprimer Isoplam® is a bi-component epoxy, solvent-free, transparent and self-levelling product, for the realization of horizontal levelling before applying the products of the Skyconcrete® Isoplam® system, the Microoverlay® Isoplam® system, the ItalianTerrazzo® Isoplam® system, the Isoplam® Stencil Spray, of the Pavilux Overlay and Stampable Overlay Isoplam® system, of the Isoplam® Terrazzoverlay system or for the creation of multilayer resin floors.

### ADVANTAGES

Skyprimer Isoplam®:

- is easy to use;
- is solvent-free: has a low environmental impact and can also be applied indoors;
- adheres perfectly to concrete surfaces, natural stones, bricks, ceramics, metal;
- does not shrink during the hardening phase;
- allows the incorporation of a fiberglass mesh to reduce the risk of cracking.

### SUPPORT PREPARATION

The substrate must be clean of oils, resins, dirt, waxes, efflorescence, grout, rust and must be well cohesive and non-friable. Any pre-existing foreign substances on the surface must be removed by sanding, milling, sand blasting, shot blasting and high pressure washing. Make sure that the substrate is completely mature and dry.

### APPLICATION

#### **Preparation of the mixture.**

Skyprimer Isoplam® is supplied in two pre-dosed components that must be mixed at the time of use. Add component B to component A and mix well with a low speed mixer until a homogeneous mixture is obtained without incorporating air and taking care to scrape the bottom and sides of the container well. Add 15% of selected quartz in grain size 0,1-0,5 (if you plan to apply two coats of primer) or 0,3-0,8 (if you plan to apply only one coat of primer) and mix thoroughly.

#### **For use as a single coat of primer**

The mixture must be applied in a thin layer on the substrate using Isoplam® trowel and then sprinkled with Isoplam® spheroidal quartz in grain size 0,6-1,2. Avoid product excesses: the mixture must not incorporate the quartz: for this purpose, it is advisable to pass a dry short-haired roller before applying the quartz to even out any excesses.

Wait for hardening before proceeding with the careful removal of excess quartz (using a single disc machine with an abrasive or mesh disc with 16 or 24 grit) and vacuuming.

#### **For use as a primer (two coats) with reinforcement**

In the case of difficult substrates, it is recommended to apply two layers of Skyprimer with interposed glass fiber mesh.

Proceed as follows:

1<sup>st</sup> coat:

- preparation of the mixture A+B of Skyprimer (without quartz or with quartz 0,1-0,5);
- spreading the mixture with a short-haired roller and supporting (without overlapping) the fiberglass mesh, taking care to make it adhere well to the mixture just applied;
- further uniform application of the mixture with a short-haired roller;
- immediate dusting to refusal of quartz 0,3-0,8;

- after drying, careful removal of excess quartz (using a single disc machine with an abrasive or mesh disc with 16 or 24 grit) and vacuuming.

2<sup>nd</sup> coat:

- preparation of the mixture A+B of Skyprimer with the addition of about 15% quartz 0,3-0,8;
- smoothing of the mixture with a trowel;
- immediate dusting to refusal of quartz 0,6-1,2;
- after drying, careful removal of excess quartz (using a single disc machine with an abrasive or mesh disc with 16 or 24 grit) and vacuuming.

**Notes:**

If the Skyprimer A+B mixture is too thick to apply, you can add a maximum of 3% of Isoplam® Epoxy Thinner.

The mixture (considering a mass of 150 g):

- at temperatures of 10°C, it can be used within 100 minutes and hardens after about 12 hours;
- at temperatures of 20°C, it can be used within 45 minutes and hardens after about 7 hours;
- at temperatures of 30°C, it can be used within 27 minutes and hardens after about 5 hours.

Complete hardening occurs after 7-8 days.

In case of partial use of the package, the two components must be carefully dosed 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.

Clean the work tools with Isoplam® Epoxy Thinner.

**CONSUMPTION**

The consumption may vary according to the support's condition, the application method and the purpose of use.

If simply smoothed, a consumption of 0,9-1,2 kg/m<sup>2</sup> is obtained.

If used in combination with Isoplam® Fiberglass Net, the overall consumption will be approximately 1,8-2,1 kg/m<sup>2</sup>.

**TECHNICAL FEATURES**

Feature (after 7 days of hardening at 25°C)	Value
Mixture A+B	100+15
Specific weight of the mixture	1,70 kg/dm <sup>3</sup>
Flexural strength (ISO 178)	>54 N/mm <sup>2</sup>
Compressive strength (UNI EN 196-1)	>88 N/mm <sup>2</sup>
Adhesion to C25/30 class concrete (ISO 4624)	>4,4 N/mm <sup>2</sup> (dry concrete) >2 N/mm <sup>2</sup> (wet concrete)
Tensile elasticity (ISO R 527 1/2)	2890 N/mm <sup>2</sup>
Elongation at break	2,3%

**PACKAGING, STORAGE AND SAFETY**

Skyprimer Isoplam® is supplied in packages of 23 Kg (A= 20 Kg)+(B= 3 Kg).

Store at a temperature between 10°C and 35°C. Protect from frost.

The expiry date of the product is indicated on the package: the last six digits of the batch number indicate the month and year.

Consult the safety data sheet before use.



**IMPORTANT:**

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.

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.