

# PAVILUX OVERLAY

## Fiber-reinforced hardener for low thickness industrial floorings

### DESCRIPTION

Isoplam® Pavilux Overlay is a fiber-reinforced and anti-shrinkage cementitious mixture, colored, anti-efflorescences and with additives, specifically formulated for the realization of 1-2.5 cm thick floorings, resistant to compression, abrasion and fire.

It is used for the realization of industrial low thickness floorings (with cloudy effect or acidification) and it is applied both “fresh on fresh” (on new floorings) or “fresh on hard” (on existing supports).

### ADVANTAGES

Isoplam® Pavilux Overlay:

- Is easy to use, because it is ready for use (you just have to add some water) and it can be kneaded easily;
- Can be used both indoor and outdoor;
- Allows the realization of minimum 1 cm thick floors;
- Can be applied on new or existing supports;
- The low quantity of water required in its mixture allows excellent durability performances;
- Excellent resistance to compression, abrasion and fire (this product is made of inorganic material).

### FIELDS OF USE

Isoplam® Pavilux Overlay is widely used:

- In the industrial field for new floorings where high resistance is required, for the renovation of old floorings or the realization of access ramps;
- In the commercial and civil fields for decorative floorings (with cloudy effect or acidification) in offices, showrooms, stores and houses.

### “FRESH ON FRESH”

Prepare the substrate and the concrete according to UNI 11146 and UNI EN 206.

Be careful with the screed kneading, leaving the established thickness for the following application of the mixture Isoplam® Pavilux Overlay.

Rough the concrete with a proper Isoplam® Power Trowel, remove possible water stagnation.

Prepare the mixture of Isoplam® Pavilux Overlay mixing homogeneously for 3-4 minutes a bag with 4-5 liters of water.

Lay and strike off the mixture of Isoplam® Pavilux Overlay as the established thickness using Isoplam® rakes. Keep the thickness constant to avoid the formation of cracking caused by different times of drying.

Knead the mixture as a traditional industrial floor with an Isoplam® power trowel.

Cut joints as soon as possible to avoid the formation of cracking caused by plastic shrinkage.

### “FRESH ON HARD”

#### Support preparation

Prepare the substrate and the concrete according to UNI 11146 and UNI EN 206, it must be clean and without contaminations of oil, grease, resin, wax; it must be roughened and made porous by milling, shot peening or high pressure washing in order to obtain a good adhesion.

It is necessary to wet the surface heavily the day before the laying of the mixture Isoplam® Pavilux Overlay, being careful to remove possible water stagnation that could compromise the attachment of Isoplam® Cement Primer.

#### ISOPLAM S.R.L.

Via E. Mattei, 4 – Z. I. Maser (TV) – Italia Tel. (+39) 0423 925023 [www.isoplam.it](http://www.isoplam.it)  
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### Primer preparation

Add 4,5-5,5 liters of water to a bucket of 20 kg of Isoplam® Cement Primer and mix for 3 minutes with a low speed stirrer up to an homogenous consistency.

Apply the resulting mixture on the surface with an Isoplam® hard bristled broom up to a thickness of 1-2 mm. Apply immediately "fresh on fresh" the mixture of Isoplam® Pavilux Overlay. In case Cement Primer dries too fast, it is necessary to apply another coat of product.

An incorrect use of the primer may cause the detachment of Isoplam® Pavilux Overlay.

### Laying of Isoplam® Pavilux Overlay

Previously prepare the mixture of Isoplam® Pavilux Overlay mixing homogeneously for 3-4 minutes a bag of 25 kg of product with 4-5 liters of water. Lay and strike off the mixture Isoplam® Pavilux Overlay as the established thickness. Keep the thickness of the mixture constant to avoid the formation of cracking caused by different times of drying. Knead the mixture as a traditional industrial floor with an Isoplam® Power Trowel.

The existent joints must be respected, so they will be cut also on the new flooring on the existent one. Their cut should be made as soon as possible in order to avoid cracking caused by the plastic shrinkage.

## RIPENING AND PRECAUTIONS

Isoplam® Pavilux Overlay floorings, especially the "fresh on hard" ones, require a particular ripening that must be slow and uniform on all surface, in order to avoid cracking caused by different times of drying.

It is recommended the use of Isoplam® Non-woven (wet it with water for the first 48-72 hours) and of Isoplam® Nylon on it.

In order to avoid cracking, it is important to pay attention to temperatures, which should be between +5°C and +28°C and to climatic conditions of the day in which the mixture will be laid (for example, a windy day may cause a too fast drying).

## DOSAGE

The indicative consumption of Isoplam® Pavilux Overlay is between 17 kg/m<sup>2</sup> and 22 kg/m<sup>2</sup> for every centimeter of thickness. Do not exceed a thickness of 2,5 cm.

## TECHNICAL FEATURES

Isoplam® Pavilux Overlay complies UNI EN 13813:2004.

<i>Performance feature</i>	<i>Test method</i>	<i>Product performance</i>
Reaction to fire	-	A1
Corrosive substances release	-	NPD
Water permeability	-	NPD
Water vapor permeability	-	NPD
Mechanical compression strength	UNI EN 13892-2:2005	> 45 N/mm <sup>2</sup> (3 days) > 70 N/mm <sup>2</sup> (28 days)
Mechanical bending strength	UNI EN 13892-2:2005	> 8 N/mm <sup>2</sup> (3 days) > 10 N/mm <sup>2</sup> (28 days)
Wear resistance	UNI EN 13892-4:2005	AR2
Abrasion resistance	Amsler, sliding friction on a 1000 m path	2.1 mm
Sound insulation	-	NPD
Sound absorption	-	NPD
Thermal resistance	ASTM E1530-11	1,2 [W/(m · K)]
Chemical resistance	-	NPD
VOC Emission	UNI EN ISO 16000-9:2006	A+
Adhesion force	UNI EN 13892-8:2004	2,79 N/mm <sup>2</sup>

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## COLORS

Isoplam® Pavilux Overlay is available natural gray, green, mustard yellow, tobacco, charcoal gray and red.

On demand, it is possible to have one of the 35 colors of the Isoplam® Color Chart.

## PACKAGING, STORAGE AND SAFETY

Pavilux Overlay Isoplam® is supplied in 25 kg bags and is kept for 6 months in unopened package, in a covered and closed place, with temperatures no lower than 5 ° C. The packaging date is shown on the bag. Consult the Safety Data Sheet before use.

Each individual work must be completed using a single production lot, otherwise Isoplam Srl is not responsible for differences in color.

### **IMPORTANT:**

The product PAVILUX OVERLAY 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. PAVILUX OVERLAY 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.