

# ISOMAT BI-120 PU

## Impregnation for surface hardening/waterproofing of floors

### Description

One-component, polyurethane, transparent coating with high penetrating ability. When applied on concrete floors or cement mortars, it seals and dustproofs their surface.

ISOMAT BI-120 PU can also be used as a surface hardener for crumbled floorings, in order to increase their strength and wear resistance.

Moreover, it eliminates the permeability of floorings and thus makes them easy to clean.

Certified according to EN 1504-2 and classified as a coating for surface protection of concrete. CE marked.

### Fields of application

ISOMAT BI-120 PU is used on concrete floors or cement mortars, in places such as basements, warehouses, light/medium traffic parking lots, etc. Furthermore, it can be used as a protective coating for metal structures. Suitable for indoor use.

### Technical data

Form:	polyurethane prepolymer
Color:	transparent, gloss
Density:	0.98 kg/l
Viscosity:	130 mPa·sec (+23°C)
Water vapor permeability: (EN ISO 7783-2)	Sd = 0.2 m
Capillary absorption and permeability to water: (EN 1062-3)	$w < 0.1 \text{ kg/m}^2 \cdot \text{h}^{0.5}$
Adhesion: (EN 1542)	$\geq 2.0 \text{ N/mm}^2$
Tensile strength: (EN 527-3)	$\sim 30 \text{ N/mm}^2$
Elongation at break: (EN 527-3)	$\sim 40\%$
SHORE D hardness:	65
Walkability:	after 24 hours (23°C, 50% RH)

Drying time: 3-4 hours (23°C, 50% RH)

Recoat time: 4-6 hours (23°C, 50% RH)

Cleaning of tools:

Tools are cleaned with SM-28 special solvent while ISOMAT BI-120 PU is still fresh.

### Directions for use

#### 1. Substrate preparation

The surface must be dry and free of dust, grease, dirt, etc.

For better impregnation of ISOMAT BI-120 PU, the surface should be prepared by grinding and dust removal.

#### 2. Application

ISOMAT BI-120 PU is uniformly applied to the substrate by brush, roller or spray until full saturation. For very absorbent surfaces, it is usually required to apply a second layer after the first one has dried.

### Consumption

100-300 g/m<sup>2</sup> depending on substrate absorbency.

### Packaging

Containers of 5 kg and 18 kg.

### Shelf life – Storage

12 months from production date if stored in its original, unopened packaging, at temperatures between +5°C and +35°C. Protect from direct sunlight and frost.

### Remarks

- During application, ambient temperature and substrate temperature should be between +8°C and +35°C.
- ISOMAT BI-120 PU is not suitable for contact with chemically treated water of swimming pools.
- ISOMAT BI-120 PU is intended for professional use only.

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## Volatile Organic Compounds (VOCs)

According to Directive 2004/42/CE (Annex II, table A), the maximum allowed VOC content for the product subcategory h, type SB is 750 g/l (2010) for the ready-to-use product.

The ready-to-use product ISOMAT BI-120 PU contains a maximum of 750 g/l VOC.



2032

**ISOMAT S.A.**

17<sup>th</sup> km Thessaloniki – Ag. Athanasios  
P.O. BOX 1043, 570 03 Ag Athanasios, Greece

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DoP No.: ISOMAT BI-120 PU / 1833-01

**EN 1504-2**

Surface protection products

Coating

Permeability to CO<sub>2</sub>: Sd > 50m

Water vapor permeability: Class I (permeable)

Capillary absorption:  $w < 0.1 \text{ kg/m}^2 \cdot \text{h}^{0.5}$

Adhesion:  $\geq 0.8 \text{ N/mm}^2$

Artificial weathering: NPD

Reaction to fire: Euroclass F

Dangerous substances comply with 5.3

**ISOMAT S.A.**

BUILDING CHEMICALS AND MORTARS

**MAIN OFFICES - FACTORY:**

17<sup>th</sup> km Thessaloniki - Ag. Athanasios Road,  
P.O. BOX 1043, 570 03 Ag. Athanasios, Greece,  
Tel.: +30 2310 576 002, Fax: +30 2310 576 029

**www.isomat.eu e-mail: support@isomat.eu**