

PLAM STONE

Concrete mixture for stamped wall

DESCRIPTION

Plam Stone Isoplam® is a premixed fiber-reinforced product based on cement, selected aggregates, oxides and additives; it is used to prepare suitable mortars to be kneaded and stamped with rubber mats. It is possible to imitate vertical face view stones, rocks, bricks, wooden strips, etc. on existing supports (such as walls, columns, risers of the steps, etc.).

FIELDS OF USE

Plam Stone Isoplam® is very appreciated in all those environments where already existing vertical elements have to be aesthetically enhanced; it is widely used in the civil sector (to cover fireplaces, columns, walls ...) as well as in sales areas (walls of showrooms, shops, offices, etc.).

TECHNICAL FEATURES & PERFORMANCES

The product Plam Stone Isoplam® conforms to UNI EN 998-1:2010 standards.

<i>Performance feature</i>	<i>Test method</i>	<i>Product performance</i>
Reaction to fire	-	A1
Water absorption	UNI EN 1015-18:2004	W2
Water permeability	-	NPD
Vapor permeability	UNI EN 1015-19:2008	46 μ , 17,4 μ
Adhesion	UNI EN 1015-12:2002	1,48 N/mm ²
Adhesion after cycles of ageing and freeze-thaw	UNI EN 1015-21:2004	1,22 N/mm ² on concrete slab
Thermal conductivity / Density	-	0,54 [W/(m·K)]
Thermal conductivity	-	NPD
Durability of one coat	-	NPD
Durability of several coats	-	NPD
VOC emissions	UNI EN ISO 16000-9:2006	A+
Bending strength	UNI EN 1015-11:2007	5,44 N/mm ²
Compressive strength	UNI EN 1015-11:2007	16,14 N/mm ²

Hydraulic shrinkage	UNI 11307:2008	ε 0,0011 at 90 days
Sound absorption	UNI EN ISO 11654:1998	0,30

SUPPORT PREPARATION

The substrate must be cleaned from oils, resins, dirt, wax, efflorescence and must be well cohesive and not friable. Existing paint on the surface must be removed by sanding. Roughen support when possible. Fill any cracks or holes with Ipm Epoxy Kit Isoplam®, observing carefully any structural joints. Where necessary, you may lay a rough coat with sand and cement. Apply Isoplam® Fiberglass Net in the presence of different elements for composition and conformation. In case the support is particularly porous, or in case of high temperatures or with windy weather, you must moisten the surface just before the application of Plam Rock Isoplam® in order to avoid the rapid absorption of the water contained in the mortar and its rapid drying. Treat the support (especially if it is smooth concrete) with Deco Primer Base Isoplam®. The inadequate preparation of the surface can affect the adhesion of the mortar. Plam Stone Isoplam® is not applicable on plaster, metal, wood (blocks and panels), on too damp walls. It is applicable on certain types of polystyrene: please check our technicians before applying on this kind of surfaces.

APPLICATION

In a cement mixer, prepare the mortar with Plam Stone Isoplam® thoroughly mixed with 4.5-5 liters of clean water. The amount of water must be constant in order to avoid differences in color. The obtained mortar should be used within one hour. Apply a first coat on the support and, before it completely dries, apply the second coat; for more than 2 cm thicknesses, apply the mixture in several coats waiting at least 1 day for each coat and roughen the lower coat. Plam Stone Isoplam® must be smoothed on the support while maintaining a uniform thickness. Once the plaster has reached the ideal consistency to be stamped, apply a light coat of Plam Liquid Rele Isoplam® on rubber mats Isoplam® with an Isoplam® Nebulizer and then imprint. Repeat the application of Plam Liquid Rele Isoplam® on the mats as soon as they tend to dry out. You can repair or modify the plaster within 8-18 hours, using the Correctors Kit Isoplam®, depending on weather conditions.

You can obtain variable thicknesses, from 1 cm to 8 cm. Within a couple of days, if required, you can color the plaster using Plam Wax Isoplam® or Plam Paint Isoplam®.

Once the coloring pastes are dry, you can protect the wall applying a coat of Plam Wax Neutral Isoplam®, Plamacryl Isoplam® (water-based) or Plam Sealing Isoplam® (solvent-based).

Note: The hardening time depends on the support, the thickness of the mortar and the environmental conditions.

It is important to pay attention to the climatic and atmospheric conditions: avoid the application of Isoplam® Plam Rock with a windy weather, during the hottest hours of the day (in summer), under the summer sun (in this case make sure to keep the plaster's surface wet for a couple of days) or with temperatures that are not between 5 °C and 30 °C. If applied indoor, you must avoid thermal shocks. These measures will prevent the formation of cracks and fissures.

CONSUMPTION

12-13 Kg/m² for each 10 mm of thickness.



PACKAGING & COLORATIONS

Plam Stone Isoplam® is packaged in sealed polyethylene double-layer bags of 25 kg and it is available in three colors: white, gray and ivory.
Upon request and for a minimum quantity of 1200 kg, Isoplam can supply customized colors.

STORAGE, EXPIRY, WARRANTY & SAFETY

Plam Stone Isoplam® is guaranteed for 10 months if stored in its original packaging in dry and ventilated place, with temperatures not lower than 5 °C.
The packaging date is shown on the package (the lot number indicates, in sequence, year / week / day).
Isoplam® does not guarantee its products if mixed or overlapped with other similar products.
The quality of the raw materials used and Isoplam® production system are ensured by the ISO 9001:2008 quality system.
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 PLAM STONE 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. PLAM STONE 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.