PLAM ROCK

Thixotropic cement mixture for decorative mortars

DESCRIPTION

Plam Rock Isoplam® is a premixed fiber-reinforced product made of concrete, selected aggregates, oxides and additives; it is used to prepare high thickness thixotropic mortars and it can be both kneaded manually or stamped with Isoplam® rubber mats.
It is possible to shape it into fake rocks, stones, wood and scenic elements of various kind.

FIELDS OF USE

Plam Rock Isoplam® is very appreciated in all those environments where already existing vertical and horizontal elements have to be aesthetically enhanced, and it is widely used in the civil sector (to coat fireplaces, columns, walls ...) as well as in sales areas (walls of showrooms, shops, offices, etc.).
It is even more appreciated in all those places where the creation of important scenic structures is required (theme parks, water parks, gardens, bars and restaurants, etc.).

TECHNICAL FEATURES & PERFORMANCES

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

Performance feature	*Test method*	*Product performance*
Reaction to fire	-	A1
Water absorption	UNI EN 1015-18:2004	W2
Water permeability	-	NPD
Vapor permeability	UNI EN 1015-19:2008	46μ , 17,4μ
Adhesion	UNI EN 1015-12:2002	1,48 N/mm²
Adhesion after cycles of ageing and freeze-thaw	UNI EN 1015-21:2004	1,22 N/mm² 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/mm²
Compressive strength	UNI EN 1015-11:2007	16,14 N/mm²
Hydraulic shrinkage	UNI 11307:2008	Ɛ 0,0011 at 90 days
Sound absorption	UNI EN ISO 11654:1998	0,40

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ADVANTAGES

The mortar made with Plam Rock Isoplam®:

- is easy to use and is very ductile;
- is suitable for both internal and external projects;
- can be used also in marine environments and at high altitudes;
- allows to realize high thickness without having to be applied in several steps;
- has a high degree of impermeability;
- has excellent resistance to impacts;
- has a good adhesion strength.

SUPPORT PREPARATION

a) MASONRY OR CONCRETE SUPPORT

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. If the support is particularly porous, in case of high temperatures or in the presence of wind, it must be moistened shortly before the application of Plam Rock 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 specific Isoplam primers.
Fill any cracks or holes with Isoplam® Ipm Epoxy Kit, observing carefully any structural joints.
Apply one coat of Deco Primer Base Isoplam®.
Where necessary (recommended for high thicknesses), arm and carry out a Hoppergun replenishment with a mixture of Plam Hardening Deco Bind (already diluted 1:1.5 with water) in a ratio of about 5:1 by weight.

b) SHAPED POLYSTYRENE SUPPORT

Shape the polystyrene of density 25 into the desired shape. The various polystyrene blocks must be glued together with a special adhesive foam for polystyrene. Apply one coat of Deco Primer Base Isoplam®.
Reinforce with Plam Brick Net or galvanized mesh well anchored to the bottom. The armor must then be drowned in the Plam Rock mortar.
If necessary (recommended for high thicknesses), after reinforcement, carry out a Hoppergun replenishment with a mixture of Plam Hardening Deco Bind (already diluted 1:1.5 with water) in a ratio of about 5:1 by weight.

c) SUPPORT IN GALVANISED METAL STRUCTURE

Apply polyurethane foam to fill the structure and shape the foam once dry. Apply one coat of Deco Primer Base Isoplam®.
Reinforce with Plam Brick Net or galvanized mesh well anchored to the bottom. The armor must then be drowned in the Plam Rock mortar.
If necessary (recommended for high thicknesses), after reinforcement, carry out a Hoppergun replenishment with a mixture of Plam Hardening Deco Bind (already diluted 1:1.5 with water) in a ratio of about 5:1 by weight.

Inadequate preparation of the support may compromise the adhesion of the mortar. Plam Rock Isoplam is not applicable on plaster, metal, wood supports (blocks and panels) or on walls that are too wet.

APPLICATION

In a cement mixer or by hand (avoid larger concrete mixers), prepare the mortar with Plam Rock Isoplam® thoroughly mixed with 4-6 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.
Once applied, the mortar should be shaped with a professional Trowel Isoplam® and then stamped with Isoplam® mats for walls (making sure to moisten them with Plam Liquid Rele Isoplam®) or cut with a Correction Kit Isoplam® until you reach the desired effect.

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Plam Rock Isoplam® can be kneaded when still fresh or, at most, within 18-24 hours after the application, depending on the weather conditions.
You can obtain variable thicknesses, from 1 cm to 8 cm.
The curing time of the plaster varies depending on the support, the thickness of the mortar and the environmental conditions.
Within a couple of days, if required, you can color the plaster with Isoplam® Plam Wax or Isoplam® Plam Paint.
It is important to pay attention to climatic and atmospheric conditions: avoid applying Plam Rock Isoplam® in strong wind, in the hottest hours of the day (in summer), in full summer sun (take care in this case to keep the plaster surface wet for a couple of days) or with temperatures that are not between 5°C and 30°C. If applied indoors, thermal changes must be avoided. These precautions will prevent the formation of cracks and fissures.

Within a couple of days, if required, the plaster can be coloured with Plam Wax Isoplam or Plam Paint Isoplam.

After a few days (after complete drying and hardening) apply the most suitable protection:

a) IN CASE OF PERMANENT CONTACT WITH WATER OR BATH WATER
Apply glossy Plam Pool (diluted with 5% Rali solvent). To obtain an opaque effect, add 5% mattifying Plam. Application by airless pump.

b) OUTDOOR NOT CONSTANTLY IN CONTACT WITH WATER OR WATERPROOF
Apply 1 coat of Idrorep/S and 1 coat of Plam Sealing/L with airless pump.

c) FOR INTERIOR NOT IN CONTACT WITH WATER
Apply 2 coats of Plamacryl with roller or airless or 1 coat of Plam Wax Neutral.

CONSUMPTION

12-13 Kg/m^2 for each 10 mm of thickness.

PACKAGING & COLORATIONS

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

STORAGE, EXPIRY, WARRANTY AND SAFETY

Plam Rock Isoplam® is guaranteed for 10 months if stored in the original packaging in a dry and ventilated place, with temperatures no 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:
All information contained in this data sheet is based on best practice and laboratory experience. It is the responsibility of the customer to verify that the product is suitable for the intended use. The manufacturer declines all responsibility for the results of incorrect applications. It is advisable to always carry out tests on small surfaces before application. This sheet replaces and cancels the previous ones. The data can be changed at any time. Please also note that Isoplam products are intended for professional use and that Isoplam provides periodic training to its customers who request it. Anyone who uses these products without being enabled does so at their own risk.

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