

PLAM DENSIFIER PLUS

Nano densifier for interior surfaces

DESCRIPTION

Plam Densifier Plus Isoplam® is a transparent, protective, hardening, anti-oil and water-repellent surface treatment for industrial, cloudy or polished floors. It is a coating treatment with nano molecules of lithium that forms a microfilm that hardens and seals concrete floors, creating a very hard surface with good waterproofing, dustproof and resistant to chemicals.

ADVANTAGES

Isoplam® Plam Densifier Plus:

- Compared to traditional sodium-based traditional densifiers, it does not required to be rinse, reducing a lot the application time;
- Resists to particular adverse conditions that characterize the most exigent commercial and internal industrial floorings (production plants, restoration structures and warehouses, etc.);
- Is suitable as a protection for civil floors in private homes;
- Does not significantly change the color of the support;
- Hardens the concrete, making it resistant to dust, stains and oils, facilitating the maintenance and improving the light reflection;
- Has a low content of VOC (<50 gr/l), it is sustainable and is almost odorless;
- Simplifies the cleaning of the concrete, making the place less predisposed to the bacteria and mold;
- Is approved for the accidental contact with food;
- Guarantees excellent duration and adhesion force;
- UV rays, abrasion, chemical leaks and intense traffic resistant;
- Offers a fast hardening and a pleasant brilliant and transparent finish that does not turn yellow;
- Thanks to its low viscosity, it penetrates fast and deeply in the concrete and does not form a film;
- Is applied on supports that require a high protection and minimum or absent inaction times;
- Does not change the friction coefficient of surfaces;
- Reduces the maintenance costs of the surfaces;
- Guarantees the breathability of the support.

APPLICATION

Isoplam® Plam Densifier Plus can be applied internally on existing ripe concrete surfaces of any age, with the exception of surfaces treated with Plam Acid Isoplam® or similar products (that would create bleaching and flaking of the surface). Clean accurately all the surfaces. Mechanically remove efflorescences and stains or repair cracks and damaged areas. Remove all the membranes created by hardening compounds, sealers, oil, grease, dirt, dust, wall residues or other contaminating agents.

It is recommended to thoroughly clean the surface with a black abrasive pad or 60 or 100 grit sandpaper, wash with a neutral pH detergent and rinse thoroughly. It is not recommended to treat the surface with an acid solution because then it would be necessary to rinse it with Isoplam® Neutra Clean Liquido to neutralize the surface correctly (failure to neutralize the pH may cause bleaching).

Remove the dust and the residues with a floor-washer using water or a broom, then rinse with water and remove it with an Isoplam® Squeegee. Do not use cleansers derived by citrus (d-limonene) or butyl compounds.

Let the to be treated surface dry very well.

Mix the product well before applying it. Apply Plam Densifier Plus Isoplam® with a spray pump and then with Spandicera Isoplam®, distributing a thin and uniform layer of product. Repeat this step until you get the results you want. Allow each application to dry for at least 30 to 60 minutes before applying another. Between coats polish the surface with Isoplam® Twister Green Disc to allow better product penetration. Do not exceed with quantities. It is essential to apply several very thin layers. A layer that is too thick would not harden properly and may discolor or bleach. Clean tools with water. Isoplam® Plam Densifier Plus treatment is environmentally friendly and does not require a special disposing system of harmful substances.

A moderate pedestrian passage is allowed after 30-60 minutes, vehicular traffic after 2 hours. In the next 7 days, the hardness and the resistance to stains will reach its highest level. Optimum performance may take up to 14 days, depending on temperature and humidity. During this period, prevent water from stagnating on the surface. It is recommended not to wet the surface in the first 24 hours after treatment and to not clean or wash the surface for the next 7 days in order to avoid the risk of whitening or bleaching. Prevent Plam Densifier Plus Isoplam® from coming in contact with any glass, fabric, metal or painted surface (if this happens, immediately wipe the surfaces with a clean cloth soaked in water, then dry with another clean cloth): protect all surfaces that you do not want to treat and that could be damaged by splashes. Always carry out on-site sampling to verify the suitability of the treatment.

MANTEINANCE

It is suggested to sweep, clean with a rag, wash and treat the surfaces with proper tools every day, using water and, if necessary, PH neutral cleansers. Water is enough in most cases. Do not use acid cleansers or with butyl or derived from citrus (d-limonene) components. Even if Isoplam® Plam Densifier Plus is resistant to chemical agents and improves the reduction of spots, its application may corrode the surface in specific chemical places or in case of acid concentrations. A regular maintenance and cleaning of the surface will prolong the brightening. Remove any chemical substances as soon as possible. Use a hard bristle broom or a mechanical sweeper to remove dirt and dust.

TECHNICAL FEATURES

Shape: water solution, milky white
Total solid: 23%
Active ingredients: 100% of total solid
Specific weight: 1.09 PH: 11.5
Protective Film: yes
Inflammability point: none
VOC contents: >50 gr/l
Solidification point: 0°C
Abrasion resistance: excellent
Penetration depth: 2 - 8 mm

Stain resistance (CLS surface treated with Plam Densifier Plus):
After cleaning, the stain was evaluated with a 0 to 10 scale, 0 meaning no changes in the appearance of the clearly visible stain and 10 meaning complete disappearance of the stain.

Pollutant type	Result after 30 minutes in contact with the pollutant	Result after 1 hour in contact with the pollutant	Result after 1.5 hours in contact with the pollutant	Result after 24 hours in contact with the pollutant
Hyrdraulic liquid	10	10	10	6
Transmission fluid	10	10	10	10
Lubricant	10	10	10	10
Red wine	10	10	8	8
Balsamic vinegar	10	10	8	8

Plam Densifier Plus helps to increase the resistance of concrete to numerous chemical pollutant such as: aluminum sulfate, ammonium chloride, carbonic acid, 25% lactic acid, 100% oleic acid, mine water and wastewater, 85% phosphoric acid, aluminum sulfate and 10% potassium sulfate, seawater, tannic acid, barium hydroxide, carbon dioxide, calcium hydroxide, calcium nitrate, creosote, cresol, ferric chloride (II) and (III), distillation bottoms, phenol 25%, beef fat, ethylene glycol, glucose, glycerin, hydrogen sulphate, iodine, manure, bisulphite lye, tanning lye 10%, magnesium chloride, magnesium sulphate, manganese sulphate, fermenting must, mercury chloride (II), mercury chloride, molasses, nickel sulphate, castor oil, natural tar oil, cottonseed oil fish oil, lignite oil, machine oil, mineral oil, mustard oil, olive oil, rapeseed oil, soybean oil, walnut oil, paraffin, potassium carbonate, potassium chloride, potassium dichromate, potassium persulfate, potassium sulfate, iron (III) sulphate, iron (II) sulphate fruit juices, refining solution, brine 10%, sodium bromide, sodium carbonate, 10% lead refining solution, sodium chloride, sodium dichromate, sodium nitrite, sodium sulphate 10%, sodium sulphite 10%, sodium thiosulphate, tallow and tallow oil, tobacco, sugar, zinc chloride, zinc sulphate, zinc nitrate...

CONSUMPTIONS

Consumption per coat on an ideal surface (nuvolato effect/industrial flooring): 40 gr/m².

Yield: if applied on a smoothed floor goes from 15 to 30 m²/lt (first coat). the following applications: from 30 to 40 m²/lt (if applied on polished/polished surfaces the consumption drops to 20 g/m²).

PACKAGING, STORAGE, CONSUMPTION AND SAFETY

Packaging: tanks of 5 lt or 20 lt.

The product fears the frost. If properly stored in its original sealed container, the product is stored for 6 months. The packaging date is shown on the package (the lot number indicates, in sequence, year / week / day).

Consult the safety data sheet before use.

IMPORTANT:

The product PLAM DENSIFIER PLUS 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 DENSIFIER PLUS 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.