

PW10 Pre-Laying Sealant

Country of Origin: Italy

PW10 is an eco-compatible, water-based pre-laying treatment that blocks efflorescence and prevents contaminants such as salts, tannins, ferrous substances and oxides from rising from the substrate to the surface of tiles and slabs. Applied to the back and edges before installation, it protects and consolidates the material, adds a water-repellent effect and does not essentially alter the adhesion properties of the adhesive.

What It's For

- An efflorescence-blocking sealant applied before laying, to the back and sides of tiles and absorbent paving slabs.
- Stops contaminants (salts, tannins, oxides, etc.) rising from the substrate, preventing streaks and stains on the finished surface.
- Delivers water-repellent and consolidating properties without forming a surface film.
- When applied after laying to natural stone, concrete and absorbent materials, it prevents blackening caused by smog, pollution, carbonation and sulphation, and by biodeterioration.

Key Advantages

- Does not form a surface film, so treated materials remain breathable.
- Does not essentially alter the adhesion of the adhesive (UNI EN 1348-2009 & ASTM C482-02 R-2009).
- Ideal for floors and all surfaces, indoors and outdoors.
- UV-resistant and non-yellowing; does not alter the material's appearance.
- VOC-free (0 g/l), low environmental impact, **Indoor Air Comfort Gold** certified.
- French A+ classified; certified to EMICODE EC1 Plus and LEED (ACP).

Suitable Materials

Back of natural stone surfaces, granite, marble, agglomerates, terracotta and absorbent materials.

Interior

Exterior

Walls

Floors

Ready To Use

No dilution required. Apply by brush, flat brush, wax applicator or airless spray. Tools clean with water.

Certified & Compliant

0 g/l VOC

Indoor Air Comfort Gold, French A+, EMICODE EC1 Plus, LEED (ACP).

PW10 Pre-Laying Sealant

Country of Origin: Italy

Pre-Sealed Paving: What It Means for You

Every slab we supply from this manufacturer arrives pre-treated with PW10, an eco-compatible, water-based sealant applied before the material ever leaves the factory. It isn't a surface coating that sits on top of the stone. It's a protective treatment absorbed into the product from the very start.

Full 6-Sided Protection

Because the UK's damp climate can be demanding on paving, every slab is given the more thorough six-sided treatment, rather than just the back and edges:

1**Coated on every face**

The back, edges and front are all fully brush-coated with PW10.

2**Applied in two coats**

A double application, for greater depth of protection than a single pass.

3**Excess removed**

Any surplus is dabbed off with a cloth so nothing sits proud on the surface.

4**Fully cured before dispatch**

Slabs are left to dry completely before packing.

Why This Matters for Your Project

- **Blocks efflorescence at source.** Salts, tannins and oxides naturally present in the stone and substrate are stopped from migrating to the surface.
- **Water-repellent, but still breathable.** Independent testing shows PW10 cuts water absorption by up to 85%, while keeping vapour permeability above 90% of untreated stone. Moisture can still evaporate outward; it simply can't carry contaminants up with it.
- **No compromise on adhesion.** Lab testing (UNI EN 1348-2009 / ASTM C482-02) confirms bond strength is unaffected, and if anything slightly improved (2.0 vs 1.9 N/mm²), so your installer's adhesive performs exactly as expected.
- **UV-stable and true to colour.** The treatment is UV-resistant and non-yellowing, so it won't alter the stone's natural tone or finish over time, even in full sun.
- **Genuinely low-impact.** VOC-free (0 g/l), French A+ classified and certified to EMICODE EC1 Plus, LEED (ACP) and Indoor Air Comfort Gold. Useful where the project carries environmental credentials.

What This Means On-Site

Because the material arrives pre-treated on all six sides, installers don't need to apply their own pre-laying sealant before bonding, as the protection is already in place. Standard adhesive selection and installation practice still apply as normal.

PW10 Pre-Laying Sealant

Country of Origin: Italy

Technical Features

Characteristic	Detail
Composition	Dispersions of organic compounds of silica and potassium silicates in a watery solution
Appearance	Transparent, colourless liquid
Odour	Odourless
Density	1.031 kg/L
pH	11.2
Dilution	None (ready to use)
Storage temperature	From 5°C to 30°C (frost-sensitive; store as indicated on the label)
Application temperature	Between 10°C and 30°C
Drying time*	12 hours (20°C to 40°C) / 24 hours (10°C to 20°C)
Curing time*	24 hours
VOC (Directive 1999/13/EC)	0 g/l

**Indicative time that varies depending on environmental conditions and on the material.*

PW10 Pre-Laying Sealant

Country of Origin: Italy

How To Use It

No dilution required; the product is ready to use. Thoroughly clean the back of the tile or slab, removing any dust and residues, and ensure the surface is dry and free from damp before applying.

01 Pre-Laying Treatment: Protection on 5 Sides

Blocks contaminating agents (stains, yellow stains, binder application errors) on the back and four sides of the material. Apply the product evenly and continuously to the back and sides using a flat paintbrush, by spraying or with an airless system, avoiding accumulation. Allow the material to dry fully, then bond when completely dry. Choose the most suitable adhesive for the installation (per the reference technical standard or the binder manufacturer). After the initial wash, the treatment can be completed with the water-based or solvent-based protector best suited to the material's intended use.

02 Pre-Laying Treatment: Protection on 6 Sides

Recommended in the presence of high humidity, to block contaminants on all sides and create a water-repellent effect on the front. Apply one coat to all sides with a flat paintbrush, by spraying or with an airless system, avoiding accumulation; alternatively immerse the material for roughly 30 seconds. Remove residues by dabbing with a cloth to avoid excess product on the surface. Bond when completely dry. After the initial wash, finish with the solvent-based protective agent suited to the material's intended use.

03 Post-Laying Application: Surface Protection

Creates a water-repellent effect on the front of the tile. With the surface dry and clean, impregnate the material until saturated using a brush, by spraying or with an airless system. Dab any excess with a clean cloth before it dries; the surface dries after just 6 hours. Spraying and airless systems are for professional use only, with the appropriate PPE specified in the safety data sheet.

Wait Before Bonding

Temperature	Wait
20°C to 40°C	~12 hours
10°C to 20°C	~24 hours

Cleaning of Tools

Clean all tools with water immediately after use.

PW10 Pre-Laying Sealant

Country of Origin: Italy

Verified Performance

Technical results from laboratory testing against the referenced standards and methods.

Property	Standard / Method	Result
Adhesion compatibility	UNI EN 1348-2009 / ASTM C482-02 R-2009	Granite, C2 FTE adhesive: 2.0 N/mm² treated vs 1.9 N/mm ² untreated (min. theoretical > 1.0 N/mm ²)
Water-repellent action	UNI EN 16302:2013 (Karsten tube)	Reduces water absorption by up to 85%
Breathability	ASTM E96M (water-vapour permeability)	Maintains breathability above 90% vs untreated material
UV resistance	ASTM G154; colour per UNI EN 15886:2010	Withstands UV radiation; does not yellow
Efflorescence-blocking	Internal standard; colour per UNI EN 15886:2010	Material retains its original appearance; no surface staining
Coefficient of friction	Manufacturer data	Unchanged from the surface's original value
VOC content	Directive 1999/13/EC	0 g/l
Environmental & air quality	Indoor Air Comfort Gold; French A+; EMICODE EC1 Plus; LEED (ACP)	Certified / compliant

85% reduction in water absorption

90%+ breathability retained

0 g/l VOC content

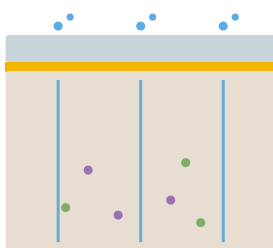
PW10 Pre-Laying Sealant

Country of Origin: Italy

How It Works

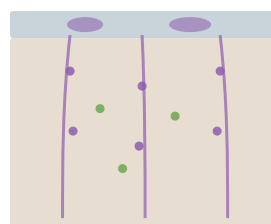
PW10 has a water-based formula of silica and silicates carefully balanced so that the protective effect does not significantly alter adhesion with the binder. Applied to the back it permanently blocks efflorescence; applied on six sides it acts as a full pre-laying treatment, protecting the material during the construction phase. It also limits the development of oxidation in materials subject to rising damp.

Treated with PW10



Humidity evaporates cleanly, with impurities filtered out by the protective agent.

Untreated



Impurities are absorbed by the material and carried to the surface, causing stains.

■ Clean water vapour ■ PW10 barrier ■ Impurities / salts ■ Substrate

Warnings

- Keep out of reach of children.
- Do not disperse into the environment after use.
- Frost-sensitive, so store as indicated on the label.
- On glossy or polished surfaces, take care not to percolate product onto the front, which can stain; do not apply to the front of polished surfaces.
- On materials with resin and/or mesh on the back, apply only to the edges and top side.
- Verify the suitable binder for the material's intended use with the manufacturer.

Safety

Classified as dangerous under Regulation 1272/2008 (CLP) and subsequent amendments. Refer to the safety data sheet and product label before use, and carry out a preliminary test on the surface to be treated.

The recommended instructions and application procedures are the result of accurate laboratory testing. As certain factors cannot be predicted, such as the condition of the surface before treatment, rare or unspecified finishes, environmental conditions and the skill of the applicator, a preliminary test on the surface is always recommended. Product quality is guaranteed, but no responsibility can be assumed in the event of incorrect use.