TECHNICAL DATA SHEET (TDS) AND INSTRUCTIONS FOR USE

PLAS ANTI SLIP®

Anti-Slip Floor Solution

Invisible anti-slip treatment for wet floors, consisting of two products and three steps (Step 1-3 + Step 2)

Product Description

PLAS ANTI SLIP® is a special anti-slip solution applied to existing floor finishes, acting at microscopic level without changing the natural look and aesthetics of the surface. It creates invisible micro grip points on the surface and prevents the water film from making the floor slippery underfoot when wet.

The system consists of two products applied in three steps: Step 1-3 is the alkaline cleaner that prepares the surface and the neutraliser in the final step; Step 2 is the active solution that penetrates the pores of the surface and provides slip resistance.

Features and Benefits

- **Invisible effect:** does not change the colour, pattern or natural appearance of the floor.
- **Grip on wet floors:** increases the friction coefficient of the surface and prevents slipping on wet floors.
- **Not a coating:** forms no film on the surface that could peel, wear off or blister.
- **Measurable result:** the friction coefficient is measured and reported before and after application.
- **Short contact time:** the contact time of the active step is 15 – 20 minutes.



Packaging

Step 1-3: 1 kg, 5 kg and 30 kg · Step 2: 1 kg, 5 kg and 30 kg. The product is also supplied as a set containing Step 1-3 and Step 2.

Storage

- Store in the original, tightly closed packaging in a cool, dry place away from direct sunlight and out of the reach of children. Shelf life is 24 months in the unopened original packaging.
- Store Step 1-3 (alkaline) and Step 2 (acidic) separately; do not transfer Step 2 into glass or metal containers.

Suitable Surfaces

- Ceramic and wall/floor tiles
- Porcelain and vitrified tiles
- Marble, granite and travertine
- Terrazzo, mosaic stone and floor tiles
- Polished/waxed floors – provided that the polish is completely removed before application

Areas of Use

- Swimming pool surrounds, SPA, Turkish baths and changing rooms
- Hospitals, hotels, schools and sports facilities
- Commercial kitchens, canteens, restaurants and catering areas
- Shopping centres, building entrances, lobbies, corridors and WC areas
- Factories, workshops, ramps and all floors that become slippery when wet

Technical Properties

Property	Step 1-3	Step 2
Function	Preparatory cleaning and neutralisation	Active anti-slip solution
Physical state	Clear liquid	Clear liquid
Colour	Red	Yellow
Character	Alkaline	Acidic
pH	> 12	< 1
Relative density	1.00 ± 0.05 kg/L	1.00 ± 0.05 kg/L
Solubility in water	Soluble	Soluble
Dry residue	2.5%	25%
VOC content	None	None
Use ratio (product : water)	1 : 4	1 : 1 – 1 : 3
Coverage	1 kg Step 1-3 + 1 kg Step 2	approx. 10 – 15 m²

Instructions for Use

Pre-application check

- **Surface analysis:** Determine the surface type (ceramic, porcelain, marble, granite etc.) and its absorbency. Keep the contact time short on glossy / polished surfaces.
- **Cleanliness:** The floor must be free of grease, dirt and detergent residues. Any polish, polymer or coating must be removed completely.
- **Trial application:** Carry out a trial on a 30 × 30 cm area; determine the dilution ratio and contact time and check appearance and slip resistance.

Equipment required

Plastic bucket · mop / microfibre cloth / glass cloth with holder · pump sprayer (optional) · brush or floor scrubber (without abrasive pads) · wet vacuum / squeegee · clean water supply · gloves and safety goggles

Step 1 – Surface cleaning (Step 1-3)

1. Remove dust from the floor. Dilute Step 1-3 at 1 kg of product to 4 kg of water (1 : 4); use half of the solution in this step and keep the other half for step 3.
2. Apply the solution to the floor and scrub with a brush or floor machine to dissolve grease and dirt.
3. Remove the dirty solution with a squeegee or wet vacuum, rinse the floor with plenty of clean water and leave it to dry.

Step 2 – Active anti-slip treatment (Step 2)

4. Dilute Step 2 with water at the ratio determined in the trial (product : water). Never pour the product directly onto the floor; put it in a bucket and apply with a well-wrung cloth, mop or pump sprayer (fine mist).
5. Spread the product evenly with back-and-forth strokes, working towards the exit of the area. The surface must be kept WET at all times during the contact time; re-apply to areas that dry quickly and never allow Step 2 to dry on the surface.

Surface	Dilution (Step 2 : water)
Dense surface	1 : 1
Medium surface	1 : 2
Sensitive surface	1 : 3

Surface type	Contact time
Ceramic / tiles	15 – 20 min
Marble / granite / porcelain	15 – 20 min
Terrazzo	approx. 20 min

Step 3 – Neutralisation (Step 1-3)

6. When the contact time has elapsed, apply the Step 1-3 solution kept from step 1 while Step 2 is still on the surface, and scrub with a brush or machine; this stops the reaction and neutralises the surface.
7. Remove all the solution with a squeegee or wet vacuum and rinse the floor with plenty of clean water. The floor can be put back into use once it is dry.

Post-application check

- Check slip resistance on the wet floor; where required, measure and report the friction coefficient with a slip meter (ASM 825A / Floor Slide Control 2000).
- Coverage: 1 kg Step 1-3 + 1 kg Step 2 treats on average 10 – 15 m², depending on the floor.

Care and cleaning recommendations

- Treated floors should be cleaned with neutral cleaners. Do not use hydrochloric acid, caustic soda (sodium hydroxide) or chemicals that damage the floor.
- Do not use cleaners containing polish, coatings, polymers or crystallising products; the treatment loses its effect where tiles are replaced or polish/coatings are applied.
- If soap-based products are used, rinse the floor with water so that no soap residue remains; otherwise the soap film reduces the effect.
- To maintain performance, clean the area every 6 months with a degreaser or Plas Anti Slip Step 1-3. Do not use abrasive pads for machine cleaning.

Safety instructions

- Wear gloves and safety goggles during application, avoid contact with skin and eyes and ensure good ventilation.
- Do not allow Step 2 to come into contact with glass, aluminium, stainless steel or other metal surfaces. Protect these surfaces before application.
- Never mix Step 1-3 and Step 2 in the same container; use separate buckets and equipment.

General product description based on our present knowledge; not part of the delivery specification. The user is responsible for the suitability of the product for its application. If in doubt, always carry out a trial on a small, inconspicuous area. See the Safety Data Sheet (SDS) for safety precautions.