

PROTECTIVE BURNISHING TREATMENT AND SEALER FOR CONCRETE FLOORS

DESCRIPTION

PENEGUARD™ is a ready-to-use, specially formulated copolymer, that enhances standard and hardened concrete surfaces and cementitious overlays, by forming a sealed protective finish, resistant to water and stains. PENEGUARD™ provides a high gloss aesthetic finish, eliminating the need for floor waxing, polymer-based coatings, liquid polishes and constant maintenance. PENEGUARD™ produces a high sheen, when used over polished and burnished concrete.

RECOMMENDED FOR

Typical areas of application are:

- ▶ Standard and hardened concrete
- ▶ Terrazzo
- ▶ Polished concrete
- ▶ Cementitious overlays
- ▶ Warehouse floors
- ▶ Aircraft hangars
- ▶ Distribution and storage facilities
- ▶ Food-processing plants
- ▶ Manufacturing / pharmaceutical facilities
- ▶ Showrooms and schools
- ▶ Any type of facility with exposed concrete surface

ADVANTAGES

- ▶ Fast drying – can be burnished in 30-60 minutes
- ▶ Nano molecules ensure deep penetration
- ▶ Non-toxic, low VOC and odorless
- ▶ Provides high gloss and good light reflection
- ▶ Non-flammable
- ▶ UV stable and breathable
- ▶ Prevents efflorescence caused by ASR
- ▶ Eliminates constant floor waxing
- ▶ Reduces floor maintenance costs

TECHNICAL CHARACTERISTICS

<i>Appearance</i>	Clear to hazy
<i>Initial Cure</i>	30 to 60 minutes
<i>Final Cure</i>	Sealing and hardening – 7 days
<i>Color</i>	Will not change the natural appearance of concrete

Test results obtained under controlled laboratory conditions, at 23°C (73°F) and 50% relative humidity, unless otherwise specified. Reasonable variations can be expected due to atmospheric and job site conditions.

DIRECTIONS FOR USE

Surface Preparation: All materials should be stored at 4-38°C (40-100°F), 24 hours prior to installation. Surfaces to be treated should have an open surface, so as PENEGUARD™ can penetrate and be absorbed. Remove all coatings, form oils, curing or sealing agents through chemical or mechanical means. Remove dust, dirt, laitance or any other contaminants, by sweeping all areas to be treated, with a fine bristle broom or scrub brush. Hose off with water and let dry. Remove any standing or puddled water to avoid dilution of PENEGUARD™ before it is able to penetrate the surface.

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Mixing: Agitate jug or pail before using.

Application:

PENEGUARD™ is ready to use, and no dilution is required.

Apply with low pressure sprayer and a microfiber or synthetic cloth.

For new concrete: Apply PENEGUARD™ immediately using a low-pressure sprayer, following the concrete finishing and as soon as the concrete surface is firm enough to walk on. For complete grinding and polishing system with sealer coat, new concrete should be cured for at least 28 days.

For all cured & hardened concrete: PENEGUARD™ may be applied to steel-troweled, hardened and highly polished (multi-step grinding and polishing system) concrete surfaces. For achieving the best results, floors should be treated with PENESEAL™ FH or PENESEAL™ FH-PS prior to applying PENEGUARD™.

Step 1. Before the application of PENEGUARD™, lightly wet the clean microfiber cloth.

Step 2. Using a low-pressure sprayer, spray a very thin mist spray within the designed application area.

Step 3. Using the damp microfiber cloth and firm downward pressure, immediately spread the PENEGUARD™ (evenly, without increasing the thickness) to produce an even wet coating. Spread the product as far as possible, while maintaining a wet edge. When properly applied, PENEGUARD™ dries quickly. Stop spreading once drying begins. Avoid overlapping.

Step 4. Allow material to dry (approximately 30-60 minutes).

Step 5. Using a high-speed burnisher (1500 rpm), burnish the surface evenly, until desired gloss and finish are achieved. Surface temperatures immediately behind the burnisher should be 32°C (90°F) or higher to allow PENEGUARD™ to fuse and bond to the substrate.

Step 6. For maximum gloss number reading, PENEGUARD™ may be reapplied (maximum 3 coats) by repeating the above steps 1 thru 5.

NOTES:

Application temperature limits: 4°C to 38°C (40°F to 100°F). The reaction of PENEGUARD™ will be slowed at lower temperatures. In these cases, the concrete should be protected from freezing for six days.

The surface can be used as soon as the application is complete and the surface is dry to the touch.

CLEAN UP

Use water to clean all tools and equipment immediately after use. Do not use solvents.

MAINTENANCE

Clean the floor by using microfiber pad or dry dust mop. Do not use detergents that contain caustic soda, sulfates or hydroxides. Acids and acidic cleaners will dull the surface sheen and/or etch the surface. If necessary, to periodically refresh the gloss finish, treat the surface intermittently by using a high speed burnisher.

COVERAGE

As a burnishing treatment - approximately 34-49 m²/L (1400-2000 sq ft/gal).

As a concrete sealer - approximately 10-15 m²/L (400-600 sq ft/gal).

Coverage can vary depending on the spread rate and pressure, temperature and porosity of the concrete.

SPECIAL CONSIDERATIONS

PENEGUARD™ is not a vapor barrier.

Not for use on surfaces exposed to standing water.

Always perform a test area prior to the actual application, to ensure desired results.

Neutralize the concrete floor before application, if it is acid or alkali treated.

Protect applied surface from moisture and water for at least 72 hours.

Contact PENETRON HELLAS S.A. for additional information, regarding your project.

NOTE: It is the responsibility of the installer / applicator to ensure the suitability of the product for its intended use.

JOB MOCKUPS

Penetron Specialty Products recommends that, when our products are used in any application or as part of any system that includes other manufacturers' products, the installer and/or design professional shall test all the system components collectively for compatibility, performance and long-term intended use, in accordance with pertinent and accepted industry standards, prior to any installation. Written documentation of the tests performed shall be satisfactory to the design professional and installer. Test results must include the means and methods of application, products used, project specific conditions being addressed, and standardized tests performed for each proposed system or variation.

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Waste disposal: This material must be discarded or disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized, wherever possible. KEEP OUT OF REACH OF CHILDREN

PACKAGING

3,8 L (1 gal) jugs; 19 L (5 gal) pails

STORAGE / SHELF LIFE

12 months from the date of manufacture, when stored in the original, unopened container, away from moisture, under cool, dry conditions and out of direct sunlight. DO NOT ALLOW TO FREEZE!

SAFE HANDLING INFORMATION

Avoid skin and eye contact. If contact is made, flush areas with plenty of water and seek medical advice. Protective gloves, mask and goggles should be worn. For further information please refer to Safety Data Sheet. PENETRON HELLAS S.A. has recently updated Safety Data Sheet on the safe use of PENETRON® products. Each Safety Data Sheet contains health and safety information for the protection of your employees and your customers. KEEP OUT OF REACH OF CHILDREN.

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