

# PENEGUARD™

## 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.

### APPLICATIONS

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  
Nanomolecules 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 DATA

#### Appearance:

Clear to hazy

#### Coverage:

*As a burnishing treatment* - approximately 1400-2000 sq ft/gallon (34-49 m<sup>2</sup>/l)

*As a concrete sealer* - approximately 400-600 sq ft/gallon (10-15 m<sup>2</sup>/l)

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

#### Initial cure:

30 to 60 minutes

#### Final cure:

Sealing and hardening – 7 days

#### Color:

Will not change the natural appearance of concrete.

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

### SHELF LIFE / STORAGE

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!

### PACKAGING

1-gallon (3.8-l) jugs; 5-gallon (19-l) pails

### DIRECTIONS FOR USE

#### Surface preparation:

All materials should be stored at 40-100°F (4-38°C) 24 hours prior to installation. Surfaces to be treated should have an open surface so 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.

#### Mixing:

Agitate jug or pail before using.

#### Installation:

- 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

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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 (1,500 rpm), burnish the surface evenly until desired gloss and finish are achieved. Surface temperatures immediately behind the burnisher should be 90°F (32°C) 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:** 40°F to 100°F (4°C to 38°C). 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.

## 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, water for at least 72 hours.

**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.

## SAFE HANDLING INFORMATION

Before using this product, review the PENEGUARD™ Safety Data Sheet (SDS) that can be found on the Penetron Specialty Products website: [www.penetronsp.com](http://www.penetronsp.com). Avoid contact with eyes and wear suitable protective eye wear. Avoid prolonged or repeated contact with skin. Wear gloves and suitable protective clothing. Do not breathe dust or mists. In case of insufficient ventilation, wear respiratory equipment. For additional information regarding first aid and emergency procedures, refer to the product Safety Data Sheet (SDS).

## 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

**WARRANTY:** PENETRON SPECIALTY PRODUCTS INC. warrants that the products manufactured by it shall be free from material defects and will conform to formulation standards and contain all components in their proper proportion. Should any of the products be proven defective, the liability to PENETRON SPECIALTY PRODUCTS INC. shall be limited to replacement of the material proven to be defective and shall in no case be liable otherwise or for incidental or consequential damages. **PENETRON SPECIALTY PRODUCTS INC. MAKES NO WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED.** User shall determine the suitability of the product for its intended use and assume all risks and liability in connection therewith.

This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about and guidelines for the proper use and application of Penetron Specialty Products under normal environmental and working conditions. Because each project is different, PENETRON SPECIALTY PRODUCTS INC. cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

**PENETRON SPECIALTY PRODUCTS INC.**

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