

Diama-Guard PSR Plus with Microban[®]

Item No: DPDGPSRP – 100 – 1

1. Description

DiamaPro[®] Diama-Guard PSR Plus (Penetrating Stain Resistor) is a penetrating non-film-forming water and stain repellent for dyed and conventional polished or troweled concrete infused with **Microban[®] Technologies** anti-microbial additive. It protects against the penetration of oil and water-borne stains and minimizes the growth of fungal and bacterial microbes. To obtain full benefit from the **Microban[®] Technologies**, **DiamaPro[®] Diama-Joint Fill Plus** must be used as the control joint resin and **DiamaPro[®] Diama-Hard Plus** for the densifier/hardener.

DiamaPro[®] Diama-Guard PSR Plus forms a hydrophobic water-repellant barrier that reduces the penetration of liquids into the surface. Most liquids will be blocked from entering the protected surface minimizing surface staining. The gloss of the polished surface will not be altered. The slip coefficient properties will not change.

2. Features / Recommended Uses

Features

- **DiamaPro[®] Diama-Guard PSR Plus** is a penetrating stain protector.
- Contains **Microban[®] Technologies** to minimize the growth of bacterial and fungal microbes.
- Will have a minimal impact on the gloss level of the polished finished surface
- Provides protection in residential, commercial and industrial applications

- 100% breathable – allows water vapor to penetrate while blocking water droplets from penetrating
- Minimizes the penetrating of oil
- Will deepen the color of dyed and natural concrete
- Provides a “window” to remove stain causing liquids
- Will not alter the slip coefficient of friction of the surface
- One component – ready to use
- Can be applied over cured, **DiamaPro[®] Diama-Guard HG Plus** treated surfaces adding extra stain and anti-microbial protection.

Recommended Uses

- Where protection from the growth of bacterial and/or fungal microbes is desired
- New and existing substrates that are polished or troweled
- Polished or troweled concrete that has been dyed or left natural
- Provides a concrete surface that can be maintained with general cleaning practices
- Improves stain and oil resistance
- Locks in dyes for enhanced color retention

3. Technical Data

PHYSICAL PROPERTIES

- Appearance: Colorless
- Odor: Negligible
- Water-borne
- Active Content: >13%

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- Flash Point: <170° F (>77°C)
- VOC Compliant: <100 gr/l
- Shelf Life: 1 year in original, unopened container
- Freezing Point: <-2°F (<-30°C)

4. Limitations

DiamaPro® Diama-Guard PSR Plus might slightly darken the substrate. Testing on the mock-up is recommended.

DiamaPro® Diama-Guard PSR Plus is not recommended to be applied in areas that might have pooling water.

Will not provide gloss enhancement to the treated surface.

Does contain a solvent so during application and for an additional 6 hours afterwards, keep open flames away from the area. Extinguish all pilot lights and recirculate the air in the area that is being treated until fully cured.

5. Application Procedures and Instructions

Coverage Rate: **DiamaPro® Diama-Guard PSR Plus** is shipped as a Ready To Use (RTU) product. On polished concrete floors, **DiamaPro® Diama-Guard PSR Plus** will typically approximately cover 2,500-4,000 sq./ft./gallon. Over **DiamaPro® Diama-Guard HG Plus** 4,000-5,000 sq.ft/gal. Substrate and environmental conditions will have an impact on the final coverage rate.

Mock-up: During the installation of the mock-up apply the **DiamaPro® Diama-Guard PSR Plus** on

all dye colors and substrates including repairs that will be on the actual project and have them approved for suitability.

Protect all surfaces in the application area that are not to be treated from airborne overspray. Remove or cover all plants and animals in the area.

Surface Preparation: All joints and repairs should be completed before the application of the **DiamaPro® Diama-Guard PSR Plus**. Prepare the substrate with diamond tooling associating with the **Diama-Polish Polished Concrete System** Level you will be achieving. **DiamaPro® Diama-Guard PSR Plus** can be applied any time after the 400-grit polishing step as the final step.

Application: The concrete substrate should at least 28 day old and be considered fully cured. The application of **DiamaPro® Diama-Guard PSR Plus** is the final step in polishing process. It must be used full strength. Do not dilute. Using a low-pressure pump sprayer fitted with a conical (round spray pattern) tip and the appropriate size microfiber application pad.

Spray a light mist of **DiamaPro® Diama-Guard PSR Plus** onto the microfiber applicator and polished surface, spread it evenly over the entire area to be treated. Do not allow to dry without spreading to a streak-free thin film. Apply enough material to obtain 100% coverage without developing puddles.

After the material has dried and cured for a minimum of 4 hours, use a high speed burnisher fitted with a 3000 grit or higher diamond impregnated pad to complete the process.



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If optimal protection is desired, 1 or 2 additional coats may be applied while burnishing between each coat.

The advanced chemistry of the **DiamaPro® Diama-Guard PSR Plus** develops over time. Avoid materials containing acid (organic, monoprotic, polyprotic) from contacting the finished surface for the first 7 days after installation.

One hour after the burnishing process the floor is ready for light foot traffic. If heavy foot traffic is expected or equipment will be moved onto the floor, wait an additional 24 hours. The chemistry develops over time and the protection properties of **DiamaPro® Diama-Guard PSR Plus** will increasingly develop as the material cures over the first 7 days in normal environments.

6. Availability

DiamaPro® Diama-Guard PSR plus is only available through **DiamaPro® Systems** Authorized Distributors. Packaged in 5-gallon units. For a list of Authorized Distributors please contact **DiamaPro® Systems**.

7. Conditions of Sale / Limited Warranty

DiamaPro® Systems warrants this product for one year from date of purchase to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase prior replacement of this product

exclusive of any labor costs at the discretion of **DiamaPro® Systems**.

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8. Technical Services

The **DiamaPro® Systems** office offers aid with specifications, performance test data and field services.

9. Disclaimer

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