

# Diama-Guard HG Plus with Microban®

Item No: DGHGP – 100 – 02

## 1. Description

**DiamaPro® Diama-Guard HG Plus** is a proprietary water-borne protective coating for interior cement-based floors infused with **Microban® Technologies**. It helps protect surfaces against stains and etching while providing anti-microbial properties minimizing bacterial and fungal growth to help maintain a healthier environment. To obtain the full benefit from the **Microban® Technologies, DiamaPro® Diama-Hard Plus** and **DiamaPro® Diama-Joint Fill Plus** must be used as the densifier/hardener and control joint resin.

**DiamaPro® Diama-Guard HG Plus** can be applied to concrete that has been burnished, steel troweled, or polished, and cement-based terrazzo substrates. If preferred, these surfaces may be burnished after application producing a higher gloss level and easily maintained system.

## 2. Features / Recommended Uses

### Features

- **DiamaPro® Diama-Guard HG Plus** infused with **Microban® Technologies**
  - Reduces the growth of harmful microbes
  - Easier to clean
  - Remains cleaner longer
  - Reduces staining and odors
- Aids in protecting polished concrete and cement-based terrazzo from oil and water-borne contaminants.

- One component and ready to use.
- Can be burnished with 3000 grit or higher diamond impregnated pad

### Recommended Uses

- Environments where public health safety is of concern: daycare, educational, public event venues, healthcare, etc.
- Facilities where bacterial growth is evident
- New and existing substrates
- Polished surface that can be maintained to retain its original appearance
- Improve stain and oil resistance
- Lock in colorants for enhanced color retention

## 3. Technical Data

### PHYSICAL PROPERTIES

- Appearance: Milky white in the bucket, Colorless when applied
- Odor: Negligible
- Water-borne
- Weight/gallon: 8.50 lbs.
- Flash Point: >200°F (>93°C)
- VOC Compliant: <100 gr/l
- Shelf Life: 2 years in an unopened container
- Compliant with United States Environmental Protection Agency's (EPA) AIM VOC regulations

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## 4. Limitations

**DiamaPro<sup>®</sup> Diama-Guard HG plus** must be stored and transported in a non-freezing environment.

**DiamaPro<sup>®</sup> Diama-Guard HG Plus** is a water-borne material that must be applied and remain in temperatures 40°F-100°F (4°-38°C) for 24 hours after application. For indoor cement-based substrates only.

## 5. Application Procedures and Instructions

**Coverage Rate:** **DiamaPro<sup>®</sup> Diama-Guard HG Plus** is shipped as a Ready To Use (RTU) product. On polished concrete floors, **DiamaPro<sup>®</sup> Diama-Guard HG Plus** will cover approximately 1500-2000 sq./ft./gallon for each application. Substrate and environmental conditions could have an impact on the final coverage rate.

**Mock-up:** During the installation of the mock-up apply the **DiamaPro<sup>®</sup> Diama-Guard HG Plus** on all dye colors and substrates that will be on the actual project and have them approved for suitability.

**Surface Preparation:** Prepare the substrate with diamond tooling associating with the **Diama-Polish Polished Concrete System** Level you will be achieving. **DiamaPro<sup>®</sup> Diama-Guard HG Plus** can be applied any time after the 400-grit polishing step.

**Application:** The application of **DiamaPro<sup>®</sup> Diama-Guard HG 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 saturate the appropriate size microfiber application pad. Ring out excess material. Spray a light mist of **DiamaPro<sup>®</sup> Diama-Guard HG Plus** onto the polished surface and spread it evenly with the microfiber pad. Do not allow to dry without spreading to a streak-free thin film. Apply enough material to obtain 100% coverage.

After the material has dried to touch, high speed burnish with a 3000 grit or higher diamond impregnated pad if desired.

A second application coat is required to obtain the full anti-microbial benefits from the **Microban<sup>®</sup> Technologies**. Apply in the same manner as the first coat. The drying process might take additional time since the surface has been sealed with the first coat. Burnish again with a high speed burnisher and 3000 grit or higher diamond impregnated pad.

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

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If you have areas that will be exposed to high levels of food acids or ongoing spills, a third coat of **DiamaPro® Diama-Guard HG Plus** may be applied. This should be done in the same manner as the previous 2 coats.

The final burnishing process should begin a minimum of 60 minutes after the final application. 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 film will become more durable as the material cures in normal environments.

## 6. Availability

**DiamaPro® Diama-Guard HG 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 helps with specifications, performance test data and field services.

## 9. Disclaimer

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