



# Diama-Polish

## TECHNICAL SPECIFICATIONS

### DESCRIPTION

**DiamaPro Systems® Diama-Polish System** is a process of sequential steps using diamond abrasives starting at a coarse grit and working through finer grits to grind, hone and polish a concrete substrate to a desired finish. This system has been created to provide clear expectations for the contractor of what the end user is expecting for performance and aesthetics. We specify the grinding process with aggregate exposure classes (A, B, C) and appearance finish levels (Level 1-4) based on gloss, haze and DOI using tools like the Image Clarity Meter for a quantifiable finish. The end result is an environmentally friendly flooring process with minimal maintenance needed for the lifetime of the floor.

### RECOMMENDED USES

The DiamaPro Systems® Diama-Polish concrete flooring system is recommended in industrial, commercial, retail and residential applications. Typically, the system is best suited for low to high foot traffic applications like schools, airports, office spaces and dining areas. The system also performs well in warehouse environments with forklift traffic like box stores, grocery stores and retail spaces. The Diama-Polish system is a non-dusting and abrasion-resistant floor that allows the concrete to remain breathable while providing a low maintenance and high performance flooring system.

### TECHNICAL DATA

Our DiamaPro Systems® Diama-Polish technical specifications for polished concrete define three levels of aggregate exposure (Classes A, B, C), from cream to coarse aggregate, and four levels of appearance (Levels 1-4) for sheen and image clarity, from flat to highly polished. These standards provide a framework for architects, owners, and contractors to ensure consistent, predictable, and measurable outcomes for polished concrete floors

### LIMITATIONS

Polished concrete's limitations include lack of sound absorption, susceptibility to cracking, and potential for staining from liquids and certain chemicals. It also cannot hide underlying concrete issues, requiring proper concrete condition beforehand and proper maintenance to avoid damage from abrasion, acids, or improper cleaning chemicals



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### APPLICATION PROCEDURES AND INSTRUCTIONS

**Surface Preparation:** The concrete surface is cleaned, and any necessary repairs are made to cracks or other imperfections. The use of Diamapro-Joint to fill exposed joints is recommended for peak performance.

**Metal Bond Grinding with coarse grits:** Heavy-duty grinding machines use coarse-grit diamond abrasives to remove any existing coatings, stains, or imperfections. This also helps to level the surface and create the initial scratch pattern for the desired aggregate exposure level.

**Grout Coat:** The application of the Diamapro® Diamapro-Grout is necessary to fill any surface defects, pin holes or cracks in the existing concrete. It is essential to apply the grout material with a hand trowel as tight as possible and to do so after your last metal bond diamond abrasive to assure the following grit can grind the residual from the surface and only leaving the repaired areas as desired.

**Hybrid bond grinding with coarse grits:** Heavy-duty grinding machines use coarse-grit hybrid bond diamond abrasives to remove any existing Diamapro® Diamapro-Grout and any remaining scratches from the previous metal bond diamond abrasives.

**Densifier Application:** Diamapro® Diamapro-Hard Plus is a water-based hardener/densifier that penetrates the near surface of the substrate to become an integral part of the concrete, reacting to fill micro voids and bonding into a dense mass creating a long-term internal seal ideal for polishing and reducing dusting. The proprietary complex wetting agents dramatically reduce the liquid's surface tension which enables deep and efficient penetration even in dense concrete substrates.

**Resin bond honing and grinding with finer grits:** The floor is then progressively ground with finer and finer grit diamond tools. Each sequential step removes the peaks and valleys created by the previous, coarser grind, leading to a smoother surface.

**Polishing:** Additional passes with even finer resin bond diamond abrasives continue the polishing process, gradually increasing the reflectivity and shine to the desired level.

**Final Cleaning and sealing:** The floor is cleaned using an auto scrubber to remove any dust and residue, revealing the smooth, glossy, or matte finish and the Diamapro® Diamapro-Guard HG is applied at 1500-2000 SF per gallon and can be applied any time after the 400-grit polishing step.

### DIAMAPRO SYSTEMS® DIAMAPRO-POLISH – APPROVED PRODUCTS

Diamapro® Diamapro-Polish System includes the following products:

- Diamapro® Diamapro-Joint 2.0
  - Item No: DP-DFJ2.0 – 10
- Diamapro® 30 grit metal bond
- Diamapro® 70 grit metal bond
- Diamapro® Diamapro-Grout 2.0
  - Item No: DP-DGROUT2.0-2
- Diamapro® 50 grit hybrid diamond



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- Diamapro® 100 grit hybrid diamond
- Diamapro® Diamapro-Hard Densifier
  - Item No: DP-DHARD-5
- Diamapro® 200 grit resin bond diamond
- Diamapro® 400 grit resin bond diamond
- Diamapro® 800 grit resin bond diamond
- Diamapro® 1500 grit resin bond diamond
- Diamapro® 3000 grit resin bond diamond
- Diamapro® Diamapro-Guard High Gloss Concrete Guard
  - Item No: DP-DGUARDHG-5+

### AVAILABILITY

**Diamapro Systems® Diamapro-Polish System products** are only available through **Diamapro Systems®** Authorized Distributors and applied by certified Applicators. Please contact Diamapro Systems®, @ 704-329-5701 for more information.

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## TECHNICAL SPECIFICATIONS

### TECHNICAL SERVICES

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

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