



Diama-Hard

Blended Surface Silicate Hardener

Item No: DH – 100 – 07

1. Description

DiamaPro® Diama-Hard is a proprietary water-based non-film forming material that will increase the surface abrasion resistance of broom, troweled, and polished concrete as well as integrally colored and dyed concrete. It penetrates to just below the surface becoming an integral part of the concrete surface, filling micro voids. When applied to a properly prepared cementitious substrate the proprietary complex chemistry will also provide an increased hardness of the cement paste to eliminate dusting, extending the substrates service life. It improves surface performance and weathering. It has been formulated to enhance substrates from very dense to very open.

2. Features / Recommended Uses

Features

- New construction, existing concrete slabs
- Hy-bred polished floors where only transitional and resin tooling or diamond impregnated pads are used
- Dye enhancing properties to brighten and enhance colors
- Stabilizers to minimize the effect of ultraviolet light on dye
- Enhanced concrete surface dust reduction
- VOC Compliant, reduced odor and non-flammable
- Aids in the reduction of ASR and efflorescence
- Insoluble with water once dry

Recommended Uses

- Creates a more uniform hardened concrete substrate for polishing
- Improves substrate scratch resistance
- Improves substrate stain resistance
- Locks in dyes for enhanced color retention when polished or coated

3. Technical Data

PHYSICAL PROPERTIES

- Appearance: Milky white in the bucket, Colorless when applied
- Odor: Negligible
- Water-borne
- Flash Point: None
- Active Solids Content – 14%
- VOC Compliant – 0 g/l
- Complies with the US Environmental Protection Agency's AIM VOC regulations
- Compatible with most carpet and tile adhesives (testing recommended)

Shelf-Life: 1 year from date of purchase in original unopened container

4. Limitations

DiamaPro® Diama-Hard is formulated for substrates containing calcium carbonate and calcium hydroxide. Must not contact aluminum, glass, or brass surfaces. All surfaces that the wet material will contact must be tested for compatibility.



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DiamaPro® Diama-Hard is a water-borne material that must be applied and remain in temperatures above 40°F for 72 hours after application until dry. It must not be allowed to freeze during shipping or storage.

5. Application Procedures and Instructions

Surface Preparation: Prepare the substrate with diamond tooling associating with the **Diama-Polish Polished Concrete System** Level you will be achieving. **DiamaPro® Diama-Hard** can be applied anywhere after the 100 grit but before the 400 grit. Depending on the porosity of the substrate, **DiamaPro® Diama-Hard** can be applied in multiple applications.

Mixing: **DiamaPro® Diama-Hard** must be mixed, stirred, or shook before use. Do not dilute.

Coverage Rate: 400-600 sq.ft./gallon on a troweled or polished surface. The substrate porosity will impact the coverage rate.

Application: **DiamaPro® Diama-Hard** must be used full strength to obtain the full performance properties. Do not dilute. Using the pour and spread method or a pump sprayer saturate the surface thoroughly at a rate of 400-600 sq.ft./gallon. Move wet material out of the low areas with a broom, squeegee, or mop. Allow to absorb for 15-20 minutes. If the **DiamaPro® Diama-Hard** absorbs into the surface and becomes dry within 15 minutes, apply another coat until the pores of the substrate are filled and will accept no additional material.

After the material has completely dried, continue grinding with the next set of diamonds. The dry time will vary due to the substrate porosity, substrate moisture content, ambient humidity level and temperature.

6. Availability

DiamaPro® Diama-Hard 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 assistance with specifications, performance test data and field services.

9. Disclaimer

Every effort has been made to ensure the accuracy of the above information and to avoid infringement of any patent or copyright. The information is based on field tests by government and private agencies, as well as lab tests, and on technical data from raw material manufacturers.

The person(s) specifying or requesting the use of these products is responsible for assuring their suitability for a specific use, as well as the proper application of the products.

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