



Diama-Hard Blended Surface Silicate Hardener

Item No: DH – 100 – 5

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 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
- Non-Dilutable 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
- VOC Compliant – 1 g/l
- USDA authorization for use in meat and poultry processing facilities.
- Compatible with most carpet and tile adhesives (testing recommended)

4. Limitations

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

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.



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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.

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 do to the substrate porosity, 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**.

NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. DIAMAPRO® SYSTEMS SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. DIAMAPRO® SYSTEMS SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

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



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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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