



# Diama-Hard C Hybrid Silicate Densifier

Item No: DH – 100 – 01

## 1. Description

**DiamaPro® Diama-Hard C** is a proprietary water-based non-film forming material that contains a blend of silicates to enhance penetration. Each one of the silicate types is different in size. This enables the **DiamaPro® Diama-Hard C** to penetrate and fill a variety of concrete slab densities. Once the reaction has completed, the surface abrasion resistance of broom, troweled, and polished concrete as well as integrally colored and dyed concrete will be dramatically increased. 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 substrate's 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: Slight milky white in the bucket, Colorless when applied and cured
- Odor: Negligible
- Water-borne
- Flash Point: None
- VOC Compliant – 0 g/l
- Compatible with most carpet and tile adhesives (testing recommended)

### VOC COMPLIANCE

- United States Environmental Protection Agency
- CARB SCM Districts
- SCAQMD
- Maricopa County, AZ
- Northeast Ozone Transport Commission



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## 4. Limitations

**DiamaPro® Diama-Hard C** 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 C** 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 C** can be applied anywhere after the 100 grit but before the 400 grit. Depending on the porosity of the substrate, **DiamaPro® Diama-Hard C** can be applied in multiple applications.

*Application:* **DiamaPro® Diama-Hard C** 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 C** 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, ambient humidity level and temperature.

## 6. Availability

**DiamaPro® Diama-Hard C** 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

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