



Diama-Cut

Item No: DPDC – 100 – 03

1. Description

DiamaPro® Diama-Cut is a water-based, pH neutral, surface tension reducing formula applied to the concrete substrate prior to the initial wet cutting steps. **Diama-Cut** will reduce the amount of time spent obtaining the desired level of aggregate exposure, shortening the overall cutting time along with extending the life of the tooling.

When using **DiamaPro® Diama-Cut**, the produced slurry solids are lifted away from the substrate, leaving an easier to clean surface for the next diamond step to cut more efficiently. This keeps the slurry solids from interfering with the diamonds' ability to cut, increasing efficiency and reducing total clean up time between steps.

2. Recommended Uses

- On all wet polishing projects when exposing aggregate.
- On the 1st and/or 2nd wet grinding steps.
- Reduces scratches caused by contaminated slurry created during lower-grit diamond tooling steps.
- Makes clean-up easier between the early grinding steps.
- Lifts slurry solids away from the surface allowing for faster grinding and increased productivity.
- Extends the life of the diamond tooling and reduces grinding and clean-up time.
- Reduces labor and tooling costs.
- Works on new or existing concrete.
- Compatible with floors to be treated with **DiamaPro®** densifiers, dyes and protective treatments.

3. Technical Data

VOC Compliance

DiamaPro® Diama-Cut is compliant with all national, state and district VOC regulations.

TYPICAL TECHNICAL DATA

FORM	Clear, colorless liquid
SPECIFIC GRAVITY	1.00
pH	7.1
WT/GAL	8.35 lbs
VOC CONTENT	<0.5%
TOTAL SOLIDS	not applicable
FLASH POINT	>212° F(>100° C)
FREEZE POINT	32° F (0° C)
ASTM	D-3278
SHELF LIFE UNOPENED	2 years

Storage and Handling

Store in a cool, dry place. Always seal container after dispensing. Do not alter or mix with other chemicals or water. Storage temperatures; 45–100°F (7–38° C).

Packaging

5 gallon units – 750 sq.ft.–1500 sq.ft. / 5 gallon unit

4. Limitations

- For use with wet-grinding only.
- Do not allow concrete to dry during the process until the foamy slurry is removed.
- For use with low-grit diamond tooling during the aggregate exposure steps.
- Do not dilute or alter. Ready To Use. (RTU)

5. Application Procedures and Instructions

Surface and Air Temperature

Temperatures should be at least 50° F (10° C) and below 90° F (32° C) during application.



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Mixing

Do not dilute or alter. Shake or stir well before using.

Coverage Rates

150–300 sq.ft. (14–28 sq.m.) per US gal

Variations in concrete quality, porosity, job site conditions, temperature and relative humidity will affect coverage rates and drying times.

Surface Preparation

Protect nearby surfaces from the product, splash and wind drift with thin mil polyethylene.

All surfaces must be clean and free of grease, oil, dust, dirt, etc. Pre-clean oil spots or other deep stains with the appropriate product.

For use with low-grit diamond tooling only during the aggregate exposure steps.

Application Equipment

Apply using low pressure sprayer. **DiamaPro® Diama-Cut** may also be poured onto the floor from the container, and spread with a softbristled push broom.

Application Process

- Thoroughly wet concrete surface with water.
- Apply **Diama-Cut** by low pressure spray, or pour-n-spread method moving it around with a soft push broom immediately in the grinder's path.
- Coat floor no further than 10 feet in front of the grinder with **Diama-Cut**.
- Wet grind the floor starting with lowest grit diamonds required to obtain the appropriate aggregate exposure. Adjust water flow from grinder to create a thick foam of slurry.
- Ensure the grinder reaches treated areas before **Diama-Cut** dries. If floor starts to dry while grinding, re-wet with water. Do not allow floor to completely dry until all of the

foamy slurry has been completely removed and the floor has been cleaned.

- If desired, clean floor in between each grinding step with fresh water then reapply **Diama-Cut** using the same process during additional wet grinding steps.
- After the required aggregate exposure is obtained, clean the floor (auto-scrub) with fresh water, allow to dry and continue the honing/polishing process.

Cleanup

Clean tools and equipment using fresh water.

If needed, a commercially available defoamer may be added to the auto-scrubber recovery tank to reduce the amount of generated foam..

Application instructions are guidelines that can be modified for specific equipment, job site conditions or personal experience. **Diama-Cut** is a tool used to aid in the wet grinding process during the aggregate exposure step(s).

6. Availability

DiamaPro® Diama-Cut is only available through **DiamaPro® Systems** Authorized Distributors and Applicators. Packaged in 5-gallon units. Only **DiamaPro® Systems Trained Applicators** are allowed to utilize the **DiamaPro® Diama-Cut System**. For a list of Authorized Distributors or Applicators please contact **DiamaPro® Systems**.

7. Conditions of Sale / Limited Warranty

DiamaPro® Systems warrants that its products conform to the label descriptions, are free from manufacturing defects, and are fit for the ordinary purposes for which such goods are used. In as much as the use of **DiamaPro® Systems'** product by others and other factors affecting product performance are beyond **DiamaPro® Systems'** control, **DiamaPro®**



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Systems does not guarantee the results to be obtained. There are no warranties except as stated herein, either express or implied, including implied warranties of merchantability or fitness for a particular purpose.

suitability for a specific use, as well as the proper application of the products.

SHOULD ANY **DiamaPro® Systems'** PRODUCT FAIL TO GIVE SATISFACTORY RESULTS, **DiamaPro® Systems'** WILL REPLACE THE PRODUCT, OR AT ITS OPTION, REFUND THE PURCHASE PRICE. THIS IS THE SOLE AND EXCLUSIVE REMEDY FOR ANY FAILURE OF DIAMAPRO SYSTEMS' PRODUCTS TO PERFORM AS WARRANTED AND SHALL ALSO CONSTITUTE LIQUIDATED DAMAGES IN CASE OF LOSS. UNDER NO CIRCUMSTANCES SHALL THE BUYER BE ENTITLED TO ANY OTHER REMEDY OR DAMAGES. REMEDIES FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES ARE SPECIFICALLY EXCLUDED.

FOR INDUSTRIAL AND COMMERCIAL USE ONLY

DiamaPro® Systems does not authorize any person to assume any other liability in connection with the sale or use of its products unless specifically authorized by **DiamaPro® Systems** in writing.

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