



Diama-Grout

Resinous Concrete Grouting Material

Item No: DPG – 100 – 6

1. Description

DiamaPro® Diama-Grout is a high strength, rapid setting resinous concrete repair material. Its low viscosity formula enables it to be used to repair a multitude of concrete defects. Spalled concrete, cracked concrete, small surface spalling and pin holes prior to the polishing or coating process can all be filled and repaired with **DiamaPro® Diama-Grout**.

DiamaPro® Diama-Grout has an easy to use 1:1 mixing ratio. Small batches are obtainable. The 100% solids formula lends itself to deeper repairs such as spalling of control joint shoulders with no outgassing. The extended pot life and working time are ideal when pre-filling concrete surface pin holes during the polishing or coating process.

2. Features / Recommended Uses

Features

- Fast initial set: rapid final cure time
- Self-priming: One material for multiple scenarios
- 100% solids: No outgassing from solvents
- <45-minute grinding time
- Installation Temperature Range: -20°F to 130°F
- Custom color tint packs available
- Mixes with oven-dried aggregate for deeper repairs
- Meets the USGBC's LEED® requirement of IEQ Credit 4.1
- Meets USDA and FDA requirements

Recommended Uses

- Fill pin holes, cracks and small defects during the polishing or coating process
- Shallow spall repair
- When a quick turn-around floor repair is desired
- When oven-dried aggregate is added, deep repairs can be obtained

3. Technical Data

Physical Properties

- Appearance: Various colors
- Odor: Negligible
- VOC Compliant – 0 g/l
- Mixed Viscosity: 250 cps
- Pot-Life: ~5 minutes in a 100-gr. mass @ 74°F
- Mix Ratio: 1:1 by volume
- Hardness: Shore D 67-72
- Grindable: <45 minutes @ 75°F
- Full Traffic: ~45 minutes @ 75°F
- Tensile Strength: ASTM D-412 4600
- Shore A Hardness: ASTM D-2240 - 85-87
- Elongation Break: ASTM D-412 6-8%
- Bond Strength: 3400 psi.
- Compressive Strength: ASTM D695-15
 - Neat – 3900 psi
 - With Aggregate - 4800 psi
- Compatible with most concrete substrates (testing always recommended)
- Shelf life is one year from date of purchase

Coverage Rate – 1200-2000 sq.ft./2-gallon kit



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4. Limitations

DiamaPro® Diama-Grout is not designed to repair moving joints or cracks. When repairing joint shoulder spalling the joint must be retained after the repair material has fully cured. Saw cut completely through the repair to retain the joint. Then fill with **DiamaPro® Diama-Joint Fill Plus**.

Some solvents might have a slight effect on the appearance of the cured material. Oils could discolor the surface over long exposure. In either case the performance of the material will not be altered. Chemical resistant testing is recommended on a mock-up if there is a concern. For interior use only.

If **DiamaPro® Diama-Grout** is allowed to cure for an extended period prior to cutting, it might be a bit more difficult to remove from the surface. Cut it as soon as it is ready to be cut.

Storage temperature should be between 75F to 95F. Do not store below 45F.

5. Application Procedures and Instructions

Grouting for Polished Concrete: Grind the floor to expose the amount of aggregate desired. Before using the **DiamaPro®** 50 grit transitional hybrid tool, clean the floor from all grinding dust. If an auto-scrubber is used allow the floor to completely dry.

If desired, a **DiamaPro®** Tint may be added. Induce the tint into the "B" component and shake or mix well depending on unit size.

Always mix batch sizes that can be used within the products useful pot life. Shake or mix both components for 2 minutes. Combine equal amounts of Components "A" and "B" into a mixing bucket. With a power drill and mixing paddle mix for 15-30 seconds or until mixture is streak-free. Pour the mixed **DiamaPro® DiamaGrout** onto the floor. Spread using a steel trowel or stand-up spreading tool. Material needs to be forced into the surface while removing as much excess material as possible. Allow to dry for approximately 45 minutes and then continue grinding with a **DiamaPro®** 50 grit transitional hybrid tool. The material can also be pumped using a bulk plural pump fitted with a static mixing nozzle.

Spalls and Cracks: Remove all bond inhibiting material from the area to be repaired. If a saw will be used to route cracks or square up spalled edges, vacuum well after sawing. Always terminate a spall with a ¼" saw cut around the perimeter. If the crack is deep, apply a layer of material in the bottom of the prepared crack, apply a layer of oven dried sand and then more mixed material. Repeat until the desired elevation is obtained.

Repair Mortar: The aggregate must be oven dried with no moisture. Aggregate grit size can range from 12-60 grit. Pour equal amounts of Components "A" and "B" into a mixing container. Power mix with a drill and paddle for 15-30 seconds or to a streak-free consistency. Continue mixing on slow speed and induce the amount of aggregate to obtain the desired consistency. Do not mix for more than one



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minute. Once heat is generated by mixing the material will start to set. Immediately place the mortar in the prepared area to be repaired. With a gloved hand, scrub the mixture into the area and then fill to desired elevation. Finish surface of repair with a trowel.

Clean Up: Cured material can be disposed of as normal construction debris.

6. Availability

DiamaPro® Diama-Grout is only available through **DiamaPro® Systems** Authorized Distributors. Packaged in 2-gallon (1 gallon of each component) and 7-gallon (3.5 gallons of each component) 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 aids with specifications, performance test data and field services.

9. Disclaimer

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