

Diamapro-GROUT 2.0

Resinous Concrete Grouting Material

Item No: DPG2.0 – 100 – 01

1. Description

Diamapro® Diamapro-GROUT 2.0 is a rapid setting, easy to use, blended polyurethane and polyurea resinous concrete repair material. Its optimized formula enables it to be used in the repair of a multitude of concrete defects. Spalled concrete, cracked concrete, small surface defects and pin holes can be filled prior to the polishing or floor coating process with **Diamapro® Diamapro-GROUT 2.0**.

Diamapro® Diamapro-GROUT 2.0 has an easy to mix 1:1 mixing ratio. Small batches are obtainable. The 100% solids formula lends itself well when filling deeper repairs such as spalling of control joint shoulders without outgassing. The extended pot life and working time are ideal when pre-filling concrete surface pin holes prior to the polishing or coating process.

2. Features

Features

- Fast set: rapid final cure time
- No outgassing in deep repairs
- <60-minute grinding time
- Surface and Air Temperature Range: 35°F to 95°F
- Color tint packs are available.
- Mixes with oven-dried aggregate for deeper repairs

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: Concrete Gray
 - Assorted color packs
 - Add color pack to B comp.
- VOC – <50 g/l
- Mixed Viscosity: 175 cps
- Solids Content: 100%
- Mix Ratio: 1:1 by volume.
- Working Time on Floor: 15-20 minutes
- Tack-free: ~20 minutes @ 72°F
- Foot Traffic: ~20 minutes @ 72°F
- Full Traffic: ~30 minutes @ 72°F
- Grindable: ~60 minutes @ 72°F
- Tensile Strength: ASTM D-638–4,500 psi
- Shore D Hardness: ASTM D-2240 – 75
- Elongation Break: ASTM D-638 3%
- Adhesion to Concrete:
 - ASTMD7234 >300 psi.
- Compressive Strength: ASTM D695
 - Neat – 6,500 psi
- Shrinkage C531 – Negligible
- Tear Strength – ASTM D624 – 285lbs/ft.
- Shelf life is one year
- Working Temperatures
 - Air 35°F–95°F
 - Substrate 35°F–95°F
 - Material 60°F–85°F



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Coverage Rate – 1200-2000 sq.ft./2-gallon kit or 600-1000 sq.ft./gallon

Packaging: 2-gallon kits

- 1 gallon A Component
- 1 gallon B Component

4. Limitations

When mixing, run the drill motor at a low speed, reducing the amount of friction that will be generated. Friction produces heat and heat will shorten the working time of the mixed material.

Diamapro® Diamapro Grout 2.0 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 completely through the repair to keep the joint, then fill with **Diamapro® Diamapro Joint 2.0**.

Do not apply on a wet or damp surface.

If **Diamapro® Diamapro Grout 2.0** 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.

With pre-tinted units, use the same batch throughout the project. Batches can have a slight color variation that might appear insignificant but can be seen on a light color substrate.

If stored below 45°F warm both A and B components to 85 degrees and paddle mixed with different paddles for each part.

Do not use it as a substitute for a joint filler. The movement capability is much less than a joint filler.

5. Application Procedures and Instructions

Grouting for Polished Concrete:

- Only mix as much material that can be used within 15 minutes.
- Power mix each component for 2-3 minutes.
- Add Color Tint Pack into the B component and power mix to a streak-free consistency for a minimum of 3 minutes.
- Add equal parts of A and B components together and power mix for 45-60 seconds uniformly at low speed.
- Immediately place the mixed material on the area to be grouted emptying the entire bucket.
- The longer the mixed material stays in the mixing vessel, the shorter the working time will be.
- With a flat, spring steel blade trowel, move the material over the floor. Pressing hard, scraping the surface, forcing the material into the defects, removing excess material from the surface.
- Once cured, grind off the excess grout from the surface. Start with a 50-grit hybrid diamond tool. If the grout has developed too much strength, move on to a 70-grit metal bond diamond tool.

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



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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. Mix with a power drill and paddle for 15-30 seconds or to a streak-free consistency. Continue mixing at slow speed and induce the amount of aggregate to obtain the desired mortar consistency. Do not mix for more than one 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 in to desired elevation. Finish the surface of repair with a trowel.

6. Availability

Diamapro® Diamapro Grout 2.0 is only available through **Diamapro® Systems** Authorized Distributors. Packaged in 2-gallon (1 gallon 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

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The **Diamapro® Systems** office aids with specifications, performance test data and field services.

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