

KINETIC PATCH

CONCRETE REPAIR BINDER PRODUCT DATA SHEET



SKU: 645-0000-02



KINETIC PATCH IS A 2-PART RAPID SET REPAIR BINDER FOR CONCRETE SUBSTRATES. This low-viscosity material is designed for rapidly rebuilding spalled or damaged concrete surfaces. Kinetic patch has minimal odor both during installation and during the grinding process once cured. It is designed to deeply penetrate into concrete substrates, offering a high strength repair that will not become brittle over time. It sets in minutes and is ideally suited for applications requiring a fast turn-around.

USES:

- › Damaged/spalled concrete
- › Rebuilding control joints
- › Knitting cracked concrete
- › Anchoring
- › Grade matching

ADVANTAGES:

- › Rapid set time
- › Very low odor
- › Excellent penetration
- › Cold environment application
- › Highly durable

PACKAGING & MIX RATIO:

Kinetic Patch: 2-gal kit

- › 1-Gal Part A (3.7 L) and 1-Gal Part B (3.7L)
- › Mix Ratio: 1-Part A to 1-Part B

SUGGESTED APPLICATION:

- › Neat: Material may be used with no aggregate to repair cracks and imperfections in concrete, allowing for a smooth feathered edge once ground.
- › Resurfacing: Float freshly mixed material over large spalls and damaged concrete to re-level surface as needed. Grind smooth.
- › Grout Repair: Combine 1-part mixed Kinetic Patch with 2-parts kiln-dried sand to create a mortar that can be troweled and shaped as required. Grind smooth.
- › Preplace Method: pre-place 30-grit sand into area to be repaired and add mixed material directly into sand to saturate. Add additional sand until desired grade is achieved. Grind Smooth.

ANCILLARY PRODUCTS:

Kinetic Patch is designed to be used with all Resinwerks floor coating products. It should be ground prior to top-coating.

SURFACE PREPARATION

CONCRETE: Concrete must have a minimum 28 day cure prior to application. Ensure substrate to be coated is clean, dry, and in sound condition. All laitance, curing compounds, concrete hardeners, and other surface contaminants must be removed. Prepare surface using a dry diamond blade or a twisted wire wheel for spalls. Cut perimeter of damaged concrete with dry diamond blade to form a key-way. Chase and open cracks to provide depth and allow for proper material fill into the void.

GENERAL PRODUCT INFORMATION

Color:	grey
Solids Volume:	70%
V.O.C.:	3.5 g/l mixed
Gel Time:	3-5 Minutes @ 75° F
Tack Free:	5-10 Minutes @ 75° F
Reducer:	Not recommended
Application Temp:	-20°F - 90°F(32.2°C)
Environment:	For Interior use only
Shelf Life:	12-months factory sealed

GENERAL PRODUCT PERFORMANCE

TEST TYPE	TEST METHOD	RESULT
Compressive Strength	ASTM D638	4,000 psi
Tear Strength	ASTM D624	400 psi
Adhesion/Pull-Off	ASTM D4541	+500 PSI
Tensile Strength	ASTM D412	4500 psi filled
Elongation:	ASTM D124	8%
Hardness/Shore D	ASTM D2240	70

MOISTURE IN CONCRETE: Concrete slabs should be tested prior to application for elevated moisture vapor emission levels. Resinwerks recommends ASTM F2170-19 standard for determining relative humidity in concrete slabs using RH probes. For slabs exhibiting elevated moisture levels in excess of 75% RH, Resinwerks™ Vapor Barrier Epoxy should be substituted as a primer. For more information, please contact your Resinwerks technical representative.

PRODUCT DATA SHEET

SURFACE PREPARATION (CONTINUED)

DE-GREASING OF CONTAMINATED SUBSTRATES: For concrete substrates containing oil, animal fats, or other carbon based contaminants, slabs should be de-greased appropriately using an enzymatic based concrete de-greasing agent.

MOISTURE IN CONCRETE: For elevated moisture vapor emission levels, please contact Resinwerks directly for technical guidance.

MIXING INSTRUCTIONS

- » Mix Kinetic Patch at a 1 : 1 ratio by volume. Use a jiffy mixer or other multi blade mechanical mixer only. No paddle mixers. Mix part A and B mechanically at high speed for approximately 30 seconds. Use mixed product as a primer for the bottom of the repair. Product exotherms and should be evacuated from mixing vessel as soon as possible.

APPLICATION INSTRUCTIONS

NEAT: Following mixing, pour catalyzed material into the crack to be repaired. Use a steel trowel or similar tool to work material into the crack.

GROUT REPAIR: Combine one part of mixed {A&B} product to two parts sand. Blend mixed product into sand quickly. Mix product and sand for another 30 seconds and immediately pour into the prepared and primed application area. Work into the repair area quickly. Screed to finished grade and allow to set, top surface with product as needed, broadcast additional sand as needed.

PREPLACE METHOD: Use #30 Grit Sand placed into repair area. Add mixed product into the placed sand. If the repair is deep work in separate lifts. As the product saturates the sand add more sand and product until finished grade is reached. Finish with a broadcast of sand slightly above grade.

FINAL GRIND: Allow product to set and grind smooth. Work in circular motion to grind/smooth to finished grade. ***If coating over repair, grinding is important to ensure proper inter-coat adhesion.***

LIMITATIONS

- » Kinetic patch is a rigid concrete repair material and not intended for use as a joint filler.
- » Do not apply in areas where moisture is present, as it may exhibit an adverse reaction.
- » Do not apply over concrete experiencing ASR
- » Do not apply to concrete < 3500 PSI compression strength
- » Do not apply to new concrete < 28-days old
- » This product is not recommended for immersion service.
- » **DEW POINT:** Do not apply when dew point is within 5°F of the

ambient temperature.

MAINTENANCE

The long-term performance, appearance, and life expectancy of wear surface products are dependent on an adequate routine maintenance program designed specifically for the installed wear surface. Resinous floor coating systems are nonporous, causing dirt and contaminants to remain on the surface. Recommended maintenance programs consist of frequent and thorough cleaning utilizing a neutral PH cleaner. The frequency of washing will vary depending on floor usage type, traffic and age. Please contact your local Resinwerks technical representative for more information.

NOTES

Thoroughly read all Material Safety Data Sheets prior to use and maintain copies on job-site at all times.

Mock-ups and field test areas are strongly recommended in order to validate performance and appearance related characteristics (including but not limited to color, inherent surface variations, wear, anti dusting, abrasion resistance, chemical resistance, stain resistance, coefficient of friction, etc.) to ensure system performance as specified for the intended use, and to determine approval of the coating system.

Variability in job site conditions (including but not limited to surface preparation, sunlight, humidity, dew point, temperature, etc.) during application of Epoxy products may lead to fish-eyes, blistering, pinholes, wrinkling, or out-gassing of air in the concrete and are not product defects.

TECHNICAL ASSISTANCE

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