

POLYMER MODIFIED THIN PATCH

PRODUCT No. 1547-40

PRODUCT DESCRIPTION

QUIKRETE® Polymer Modified Thin Patch is a polymer modified and shrinkage-compensated, high strength portland cement-based repair material designed for non-structural, horizontal, vertical, and overhead concrete repairs.

PRODUCT USE

QUIKRETE® Polymer Modified Thin Patch is designed to make large and small, non-structural repairs to spalled, cracked, honeycomb, or pitted concrete floors, driveways, sidewalks, steps, curbs, balconies, or any other horizontal, vertical, or overhead concrete surface. QUIKRETE® Polymer Modified Thin Patch is a versatile product that can be used indoors or outdoors. Its enhanced handling characteristics makes it easy to apply to old, structurally sound concrete. QUIKRETE® Polymer Modified Thin Patch demonstrates low sag, making it ideal for vertical or overhead concrete surfaces. It has good freeze/thaw durability, low shrinkage, and high abrasion resistance for excellent durability. It bonds excellently to clean, structurally sound concrete without the need for a bonding agent.

- Apply from 1/16 in to 1 in (1.6 mm to 25.4 mm) thick
- High bond strength
- Formulated for reduced shrinkage
- Walk on in 3 hours and drive on in 24 hours

SIZES

40 lb (18 kg) bags

YIELD

Each 40 lb (18 kg) bag of QUIKRETE® Polymer Modified Thin Patch will yield 0.35 ft³ (10 L) of material. The typical coverage for one 40 lb (18 kg) bag is shown in Table 2.

TECHNICAL DATA

APPLICABLE STANDARDS

- ASTM C109 Standard Test Method for Compressive Strength Hydraulic Cement Mortars (Using 2 in. or [50-mm] Cube Specimens)
- ASTM C157 Standard Test Method for Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete
- ASTM C191 Standard Test Methods for Time of Setting of Hydraulic Cement by Vicat Needle
- ASTM C1583 Standard Test Method for Tensile Strength of Concrete Surfaces and the Bond Strength or Tensile Strength of Concrete Repair and Overlay Materials by Direct Tension (Pull-off Method)
- ACI 305R Guide to Hot Weather Concreting
- ACI 306R Guide to Cold Weather Concreting

PHYSICAL/CHEMICAL

Typical results obtained for QUIKRETE® Polymer Modified Thin Patch, when tested in accordance with the referenced ASTM procedures, are shown in Table 1.

DIVISION 3

03 01 00 Maintenance of Concrete



TABLE 1 TYPICAL PHYSICAL PROPERTIES

Compressive Strength, ASTM C109 (Modified)

Age	PSI (MPa)
1 day	3000 (20.6)
7 days	4000 (27.5)
28 days	5000 (34.4)

Length Change, ASTM C157 (Modified)

28 days, air	≥ -0.10%
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Tensile Strength by Direct Tension (Pull Off Method), ASTM C1583

7 days	≥ 250 PSI (1.7 MPa)
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Freeze/Thaw Mass Loss, ASTM C666 (Modified)

	≤ 5%
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INSTALLATION

SURFACE PREPARATION

All surfaces should be clean and free of foreign substances. Remove all spalled areas and areas of unsound concrete. The appropriate personal protective equipment should be worn. Preparation work done on the repair area should be completed by high pressure water blast, chipping hammer, or other appropriate mechanical means to obtain an exposed aggregate surface. Refer to current ICRI Guideline 310.2R Section 10 for additional surface preparation information. Prior to placement of the material, saturate the repair area with clean water to ensure SSD condition. No standing water should be left in the repair area.

MIXING

QUIKRETE® Polymer Modified Thin Patch should be mechanically mixed for 2 to 4 minutes using a 5 gallon (19 L) bucket with an appropriate 1/2 in (13 mm) drill and paddle mixer. Refer to ICRI Guideline No. 320-5R to determine the appropriate paddle for your application. For larger applications, a standard mortar mixer may be used. To ensure proper mixing, always add the dry material to pre-measured water when mixing.

Use approximately 4 qt to 4-1/2 qt (3.8 L to 4.3 L) of water per 40 lb (18 kg) bag. Begin by using the low water quantity, then adjust, if needed, to achieve the desired consistency. The water demand of the product may vary based on environmental conditions. Exceeding the recommended water quantity may cause a reduction in the performance of the product.

APPLICATION

Trowel apply the QUIKRETE® Polymer Modified Thin Patch to the properly prepared substrate. Apply a thin layer with heavy trowel pressure, and then go back and build up to the desired thickness. Do not overwork. QUIKRETE® Polymer Modified Thin Patch may be broom finished or left with a trowel finish.

CURING

Once complete, it is recommended to utilize proper curing practices. The use of sheeting, curing compounds, or the application of a very fine fog spray of water, are all acceptable curing methods. Curing compounds such as QUIKRETE® Acrylic Concrete Cure and Seal (No. 8730) provide the easiest and most convenient method of curing. Curing compounds should be applied via appropriate methods, once final set has been reached. Refer to ACI 308R for additional concrete curing recommendations.

PRECAUTIONS

- Mix no more material than can be used in 20 minutes.
- Follow ACI 305R when using product in hot weather. An example of an additional step would be using cold water when mixing in extremely hot weather.
- Follow ACI 306R when using product in cold weather. Examples of additional steps would be using hot water when mixing in severely old weather and using plastic sheeting and insulation blankets if temperatures are expected to fall below 32 °F (0 °C).
- For best results, do not overwork the material or retemper with additional water.
- When making repairs, good color matching can be difficult. Preview a small quantity of the repair material in an inconspicuous area and allow it to cure before evaluating color and overall appearance.
- Control and expansion joints should be maintained to prevent cracking.

TABLE 2 TYPICAL COVERAGE

Thickness	Coverage
1/4 in (6.3 mm)	16.8 ft² (1.56 m²)
1/2 in (13 mm)	8.4 ft² (0.78 m²)
1 in (25 mm)	4.2 ft² (0.39 m²)

SAFETY

IMPORTANT: Read Safety Data Sheet carefully before using. **WEAR IMPERVIOUS GLOVES**, such as nitrile, mask, and eye protection.
DANGER: Causes severe skin burns and serious eye damage. Prolonged or repeated inhalation of dust may cause lung damage or cancer.
Keep out of reach of children

WARRANTY

NOTICE: Obtain the applicable **LIMITED WARRANTY** at www.quikrete.com/product-warranty or send a written request to The Quikrete Companies, LLC, Five Concourse Parkway, Atlanta, GA 30328, USA. Manufactured by or under the authority of The Quikrete Companies, LLC. © 2025 Quikrete International, Inc.