



CEMENT & CONCRETE PRODUCTS™

CONCRETE BONDING ADHESIVE

PRODUCT No. 9902

PRODUCT DESCRIPTION

QUIKRETE® Concrete Bonding Adhesive is specifically formulated for permanently bonding new concrete or plaster to old concrete or plaster. It is suitable for interior or exterior applications. QUIKRETE® Concrete Bonding Adhesive is also used as the required primer for QUIKRETE® Self-Leveling Floor Resurfacer.

PRODUCT USE

This exterior grade synthetic emulsion adheres new concrete, toppings and Portland cement plaster or repair material to floors, walls, sidewalks, silos, concrete pipes, concrete pavements, concrete and cinder blocks, curbs and steps. It provides a permanent physical bond which is stronger than the material being bonded. There is no need for chipping, drilling or roughing the old surface before application.

SIZES

- 1 qt (0.95 L) plastic bottles
- 1 gal (3.8 L) plastic jugs
- 5 gal (18.9 L) plastic buckets

YIELD

- As a paint-on adhesive - 35 - 75 ft²/qt (150 - 300 ft²/gal) (3.4 - 7.3 m²/L)
- As a slurry coat - approximately 19 ft²/qt (75 ft²/gal) (1.85 m²/L)
- As a primer - 600 - 1200 ft²/gal (14.7 - 29.4 m²/L)

TECHNICAL DATA

APPLICABLE STANDARDS

ASTM International

- ASTM C1059 Standard Specification for Latex Agents for Bonding Fresh to Hardened Concrete
- 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)

Note – QUIKRETE® Concrete Bonding Adhesive applied to appropriate substrates will achieve tensile bond strengths typical of those shown in Table 1. QUIKRETE® Concrete Bonding Adhesive meets or exceeds the requirements for ASTM C1059 Types I and II as shown in Table 2.

TABLE 1 TYPICAL TENSILE BOND STRENGTH (ASTM C 1583)

| Application | Tensile Bond Strength |
|---|----------------------------|
| Sand Mix bonded with paint-on adhesive | 7 days: 100 psi (0.7 MPa) |
| | 28 days: 150 psi (1.0 MPa) |
| Sand Mix bonded with a slurry coat | 7 days: 300 psi (2.1 MPa) |
| | 28 days: 350 psi (2.4 MPa) |
| Primer for Self-Leveling Floor Resurfacer | 7 days: 300 psi (2.1 MPa) |
| | 28 days: 400 psi (2.8 MPa) |

DIVISION 3

Common Work Results
for Concrete 03 05 00



TABLE 2 SLANT SHEAR STRENGTHS (ASTM C 1059)

| Adhesive Type | Specification |
|---------------|----------------------|
| Type I | > 400 psi (2.8 MPa) |
| Type II | > 1250 psi (8.6 MPa) |

INSTALLATION

SURFACE PREPARATION

- Apply only to clean, sound surfaces
- Remove dust, dirt, oil, grease, wax, unsound concrete and plaster, paint and other foreign materials

APPLICATIONS

Use As a Paint-On Adhesive

- Apply to surface with brush, roller or spray to the thickness of a coat of paint. Can be applied to a dry or damp surface
- Place new concrete, topping mixes, Portland cement, plaster mixes or patches as soon as the adhesive is dry. Gypsum plasters and finish plasters should be placed over tacky coat of adhesive
- Make sure basecoat plaster is dry before applying adhesive
- Tools, brushes and other application accessories should be immediately cleaned with soapy water. Use hot water to clean up any drippings

Use As a Slurry Coat

- Make slurry from approximately 2 parts Portland cement and 1 part Concrete Bonding Adhesive
- Apply a thin layer of slurry onto the properly prepared substrate using a trowel, brush or squeegee, being sure to rub the slurry thoroughly into the surface
- Apply topping or repair material immediately before the slurry dries

Use As a Primer for Self-Leveling Floor Resurfacers

- Concrete must be free of coatings, curing compounds or waxes and rigorously clean, dust-free and in sound condition. Use proper repair techniques to replace unsound concrete with the appropriate QUIKRETE® repair material. Remove old coatings and weak surface laitance with appropriate abrasive techniques. Shotblasting of the surface is most preferred
- Dilute 1 part QUIKRETE® Concrete Bonding Adhesive with 2 parts clean water. Stir well before using
- Apply with broom, roller or garden sprayer to saturate the surface. Clean tools and equipment immediately with warm soapy water
- Low porosity concrete in good condition typically requires 1 coat. Porous concrete typically requires 2 coats
- Do not apply QUIKRETE® Self-Leveling Floor Resurfacer until the QUIKRETE® Concrete Bonding Adhesive is dry to the touch. If there is no visible sheen to the concrete, apply a second coat of QUIKRETE® Concrete Bonding Adhesive and wait for it to dry. A drying time of 2 - 3 hours is typical, although drying times will vary greatly with temperature, humidity and the condition of the concrete
- If the area coated with QUIKRETE® Concrete Bonding Adhesive is kept clean and dry, the topping can be applied up to 48 hours after installation of the QUIKRETE® Concrete Bonding Adhesive

PRECAUTIONS

- Protect QUIKRETE® Concrete Bonding Adhesive from freezing
- Do not apply at temperatures below 50 degrees F (10 degrees C)
- Do not use over previously painted surfaces
- Do not use in combination with QUIKRETE® Concrete Acrylic Fortifier
- Do not store in areas over 100 degrees F (38 degrees C)

WARRANTY

The QUIKRETE® Companies warrant this product to be of merchantable quality when used or applied in accordance with the instructions herein. The product is not warranted as suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is limited to the replacement of its product (as purchased) found to be defective, or at the shipping companies' option, to refund the purchase price. In the event of a claim under this warranty, notice must be given to The QUIKRETE® Companies in writing. This limited warranty is issued and accepted in lieu of all other express warranties and expressly excludes liability for consequential damages.

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