

# QUIKRETE® Guide Specification

## QUIKRETE® CONCRETE BONDING ADHESIVE (No. 9902)

One Component, Type II Bonding Adhesive – Ethylene Polyvinyl Acetate Co - Polymer

### Specifier's Note:

Select section number based on intended use. Delete other section numbers

### Section 03 53 00 – Concrete Topping Section 03 54 16 –Hydraulic Cement Underlayment Section 09 24 00 – Portland Cement Plastering (Stucco)

#### PART 1 – GENERAL

##### 1.10 SUMMARY

- A. Provide one component Bonding Adhesive, Type II Ethylene Polyvinyl Acetate Co - Polymer for Portland Cement Repair Mortar.

##### 1.20 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions for each material and product used. Include manufacturer's Material Safety Data Sheets.

##### 1.30 REFERENCES

- A. ASTM C 1059: Slant Shear Bond Strength
- B. ICRI Technical Guideline No. 03732, Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, and Polymer Overlays.

##### 1.40 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: The manufacturer shall be a company with at least fifteen years of experience in the manufacturer and marketing of products specified herein.
- B. Installer's Qualifications: The contractor shall be qualified to perform the work specified by reason of experience.

##### 1.50 DELIVERY, STORAGE AND HANDLING

- A. Deliver products in packaging, labeled with product identification, manufacturer, batch number and shelf life.
- B. Store products in a dry area. Protect from freezing. Do not store in areas over 100°F (38°C).
- C. Handle products in accordance with manufacturer's printed recommendations.

#### PART 2 - PRODUCTS

##### 2.10 MATERIALS

A. ASTM C 1059 Type I and Type II Ethylene Polyvinyl Acetate Co - Polymer Bonding Agent for Portland Cement Repair Mortars. Comply with the following:

1. Manufacturer: Concrete Bonding Adhesive (No. 9902) as manufactured by the QUIKRETE® Companies, One Securities Centre, 3490 Piedmont Road, NE, Suite 1300, Atlanta, GA 30305; telephone (404) 634-9100.

2. Performance and Physical Properties at 73 degrees F (23 degrees C) and 50 percent relative humidity.

a. Application: Paint-on: Spray, brush roller or squeeze application  
Slurry coat: trowel, brush, roller or squeegee application.

b. Bond Strength, ASTM C 1059  
Type I (paint-on): > 400 psi (2.8 Mpa)  
Type II (slurry coat): > 1250 psi (8.6 MPa) @ 20 days.

c. Combustibility: Non-combustible, both before and after use.

### **PART 3 - EXECUTION**

#### **3.10 EXAMINATION**

A. Examine substrates and conditions under which materials will be installed. Do not proceed with installation until unsatisfactory conditions are corrected.

B. Coordinate installation with adjacent work or ensure proper sequence of construction. Protect adjacent areas and landscaping from contact due to mixing and handling of materials.

#### **3.20 SURFACE PREPARATION:**

Comply with manufacturer's printed instructions and the following:

A. Remove loose and deteriorated materials using shot – or sand blasting

B. Clean surfaces of bond-inhibiting materials including mildew, dust, dirt, oil, grease and standing water.

#### **3.30 MIXING:**

Comply with manufacturer's printed instructions and following:

A. Paint on Application: Apply undiluted, shake well before using.

B. Slurry Coat Applications:

1. Blend approximately 2 parts Portland Cement and 1 part Concrete Bonding Adhesive.

2. Pour the powder into the adhesive and mix until a lump free consistency is achieved.

C. Primer Application:

1. Dilute 1 part Concrete Bonding Adhesive with 2 parts of clean water, stir well before using.

3.40 **APPLICATION:**

Comply with manufacturer's printed instructions and the following:

A. Paint on Application

1. Apply to surface with a brush, roller or spray to the thickness of a coat of paint.
2. Place new concrete, topping mixes, Portland cement, plaster mixes or patches as soon as adhesive is dry. Gypsum plasters and finish plasters should be applied while the adhesive is still tacky.
3. Base coat plasters must be dry before applying adhesive.
4. Tools, brushes and other application accessories should be immediately cleaned with warm soapy water. Use hot water to clean-up any drippings.

B. Slurry Coat application

1. Apply a thin layer of slurry onto the properly prepared substrate using a trowel, brush or squeegee. Rub the slurry thoroughly into the surface.
2. Apply the topping or repair material before the slurry dries.

C. Primer Application

1. Apply with broom, roller or garden sprayer to saturate the surface. Clean tools and equipment immediately with warm soapy water.
2. Low porosity concrete in good condition requires one coat. Porous concrete requires 2 coats.
3. Allow Concrete Bonding Adhesive to become dry to the touch. If there is not visible sheen to the concrete apply a second coat and allow to dry. A drying time of 2-3 hours is typical.
4. Toppings may be applied up to 48 hrs after Concrete Bonding Adhesive has been applied. Keep the coated area clean and dry.

F. Cleaning: Remove excess material before material cures. If material has cured, remove using mechanical methods that will not damage substrate.

**END OF SECTION**