

# QUIKRETE® Guide Specification

## Concrete Resurfacer (No. 1131)

Polymer Modified, Shrinkage Compensated, Cement Based, 1 Component Concrete Resurfacer

### Section 03 01 00 – Maintenance of Concrete

### Section 03 53 00 – Concrete Topping

#### PART 1 – GENERAL

##### 1.10 SUMMARY

- A. Provide one component, polymer modified, shrinkage compensated, cement based, squeeze applied mortar for repair and resurfacing of existing concrete substrate.
- B. Related Sections: Other specification sections which relate directly to the work of this section include the following:

- Section 030100: Concrete Maintenance
- Section 033000: Cast-In-Place Concrete

##### 1.20 SUBMITTALS

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

##### 1.30 REFERENCES

- A. ASTM C 109: Compressive Strength of Hydraulic Mortars
- B. ASTM C 157: Length Change of Hardness Hydraulic Cement

##### 1.40 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: The manufacturer shall be a company with at least fifteen years experience in the manufacturer and marketing cementitious dry packaged repair materials.
- 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 original packaging, labeled with product identification, manufacturer, batch number and shelf life.
- B. Store products in a dry area. Protect from direct sunlight.
- C. Handle products in accordance with manufacturer's printed recommendations.

## PART 2 – PRODUCTS

### 2.10 MATERIALS

- A. Polymer modified and shrinkage compensated, hydraulic cement based one component Concrete Resurfacer. Comply with the following:
1. Manufacturer: Concrete Resurfacer 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 and 50 percent relative humidity:
    - a. Compressive Strength, ASTM C 109 (Air Cured): 1000 psi (6.9 MPa) @ 24 hours, 3000 psi (20.71 MPa) @ 7 days and 4500 psi (31.0 MPa) @ 28 days
    - b. Length Change, ASTM C 157 Modified: Stored in Water < +0.15%  
Stored in Air < - 0.15%
    - c. Walk on Time: 6 hours
    - d. Drive on Time: 24 hours

## 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 to ensure proper sequence of construction. Protect adjacent areas landscaping from contact due to mixing and handling of materials.

### 3.20 SURFACE PREPARATION:

Comply with manufacturer's printed instructions and the following:

1. Existing concrete must be rigorously cleaned to ensure proper adhesion of Concrete Resurfacer. Pressure wash thoroughly with a 3,500 – psi (24MPa) pressure washer.
2. Level spalled areas, pits or cracks with QUIKRETE® Concrete Resurfacer in trowelable consistency. Use approximately one part water to 7 parts Concrete Resurfacer by volume. Allow the repairs to harden before resurfacing the entire area.
3. Section off the work into areas no larger than about 100 sq. ft. (9.3 m<sup>2</sup>). Control joints and expansion joints must be maintained. Use weather stripping or duct tape to prevent Concrete Resurfacer from flowing into joints.

### 3.30 MIXING:

Comply with manufacturer's printed instructions and the following:

1. Mix in a five-gallon (19 L) bucket with a ½", (12 mm) drill and paddle mixer. Larger quantities can be mixed using a Mortar Mixer.
2. Add approximately 5.5 pts. (2.6 L) of water per 40-lb (18.1 kg) bag. Add the powder to the water and mix to a lump free pourable consistency. Add water sparingly to reach

the desired consistency. Do not exceed 7 pints (3.3 L) of water per 40-lb (18.1 Kg) bag.

3. QUIKRETE® Concrete Resurfacer has a working time of about 20 minutes at 73°F (23°C). In hotter weather, working time will be reduced.

#### 3.40 **APPLICATION:**

Comply with manufacturer's printed instructions and the following:

1. Saturate the surface with water then remove any standing water.
2. Pour Resurfacer on to the prepared surface and spread with a long handled squeegee. Use the squeegee to scrub the material into the surface.
3. For a slip resistant professional finish, follow within five minutes with a broom making full strokes across the full distance of the current Resurfacer work area without stopping. If desired a concrete edger can be used around the edges within 20 minutes of pouring.
4. Do not apply if temperatures are below 50°F (10°C) or are expected to go below 40° (4°C) within a 24 hour period. Use cold water in hot weather or hot water in cold weather to achieve desired grout temperature.

#### 3.50 **CURING**

1. Under normal conditions no special curing is required. Keep temperature above 50°F (10°C) for 24 hours after finishing. During extreme wind and sun conditions, moist cure with a water fog spray twice daily for 24 - 48 hours after application.
2. Protect from rain for at least 6 hours, longer in cool or damp weather. Do not cover unless immediate rain protection is necessary.
3. No sealer is required.

#### 3.60 **CLEANING**

- A. Remove excess material before material cures. If material has cured, remove using mechanical methods that will not damage substrate.

**END OF SECTION**