

QUIKRETE® Guide Specification

Hydraulic Water-Stop Cement (No. 1126)

Rapid Setting, High Strength Repair Mortar for Stopping Leaks in Concrete & Masonry Surfaces

Section 03 01 00 – Maintenance of Concrete Section 07 16 00 - Cementitious and Reactive Water Proofing

PART 1 – GENERAL

1.10 SUMMARY

- A. Provide rapid setting, high strength repair mortar for stopping leaks in concrete and masonry surfaces.
- B. Related Sections: Other specification sections which relate directly to the work of this section include the following:

- Section 030100: Maintenance of Concrete
- Section 033000: Cast-In-Place Concrete
- Section 040100: Maintenance of Masonry
- Section 042200: Concrete Unit Masonry

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 191: Setting Time of Hydraulic Cement.

1.40 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: The manufacturer shall be a company with at least fifteen years experience in the manufacture and marketing of pre-packaged cementitious 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. Rapid setting, high strength repair mortar for stopping leaks in concrete and masonry surfaces. Comply with the following:
1. Manufacturer: Hydraulic Waterstop Cement (No. 1126) 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 cured at 73 degrees F (23°C) and 50 percent relative humidity:
 - A. Final Set Time, ASTM C 191: Less than 5 minutes.
 - B. Compressive Strength, ASTM C 109: 1000 psi (6.9 MPa) @ 2 hours, 2500 psi (17.3 MPa) @ 24 hours, 4500 psi (31.1 MPa) @ 7 days and 5500 psi (38.0 MPa) @ 28 days.

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. All repair areas should be free of loose material, dirt, dust, algae and mildew.
2. Small cracks and holes should be enlarged with a chisel. Edges must be square or undercut; avoid v-shape cuts.

3.30 MIXING:

Comply with manufacturer's printed instructions and the following:

1. Mix 4½ parts of Hydraulic Waterstop with one part clean water by weight until a heavy putty consistency is achieved.
2. Roll the mixture between hands until material becomes warm and begins to harden.
3. Mix only the amount of Hydraulic Waterstop Cement that can be applied in 2-3 minutes.
4. Do not re-temper with additional water.

3.40 APPLICATION:

Comply with manufacturer's printed instructions and the following:

1. Starting at the top of the crack and working down, press the Hydraulic Waterstop Cement into place.

2. Maintain constant pressure for several minutes until initial set begins and the leak is stopped.
3. Excess material can be removed to form a smooth surface.
4. Do not apply if temperatures are below 40°F (4°C) or are expected to go below 32° (0°C) within a 24 hour period. Use cold water in hot weather or hot water in cold weather to achieve desired mortar temperature.

3.50

CURING

- A. No special procedures are 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