



STO GUIDE SPECIFICATION
SPECIFICATION CR214 Sto Flexible Crack Filler
Acrylic-Based, Vertical Surface Leveling and Crack-Bridging

SECTION 03250

CONCRETE CRACK REPAIR (NONSTRUCTURAL)

PART 1 - GENERAL

1.01 SUMMARY

- A. Provide acrylic-based, flexible crack filler for non-structural cracks in existing concrete.
- B. Related Sections: Other specification sections which relate directly to the work of this section include the following:
 - 1. Section 03300, Cast-In-Place Concrete.

1.02 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.

1.03 REFERENCES

- A. ASTM D4541, Direct Tensile Bond
- B. ASTM D412, Tensile Strength and Elongation

1.04 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: The manufacturer shall be a company with at least five years experience and regularly engaged in the manufacture and marketing of products specified herein. The manufacturer shall have an ISO 9001 certified quality system.
- B. Installer's Qualifications: The contractor shall be qualified to perform the work specified by reason of experience.

1.05 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 with temperature maintained between 50 and 85 degrees F (10 and 29 degrees C). Protect from direct sunlight. Protect from freezing.
- C. Handle products in accordance with manufacturer's printed recommendations.



PART 2 - PRODUCTS

2.01 MATERIALS

- A. Acrylic-based flexible weatherproofing crack filler. Single component water-based acrylic, non-sag crack filler, containing premium grade acrylic resins. Comply with the following:
 - 1. Manufacturer: CR214 Sto Flexible Crack Filler as manufactured by Sto Corp., PO Box 44609, Atlanta, GA, 30336-5609; telephone 404-346-3666.
 - 2. Performance and Physical Properties: Meet or exceed the following values for material cured at 73 degrees F and 50 percent relative humidity:
 - a. Application: Cartridge gun.
 - b. Working Time: 15-45 minutes.
 - c. Adhesion: >185 psi (1.28 MPa) at 7 days, ASTM D4541.
 - d. Elongation: >75% at 7 days, ASTM D412
 - e. Color: Concrete Gray.
 - f. Combustibility: Non-combustible, both before and after use.
 - g. Other Characteristics: Highly flexible, weather resistant, non-sag, and breathable.

PART 3 - EXECUTION

3.01 INSTALLATION OF FLEXIBLE CRACK FILLER

- 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 from contact due to mixing and handling of materials.
- C. Surface Preparation: Comply with manufacturer's printed instructions and the following.
 - 1. Remove loose, deteriorated materials and debris from crack.
 - 2. Clean surfaces of bond inhibiting materials including mildew, dust, and dirt. Surfaces must be dry.
- D. Application: Comply with manufacturer's printed instructions and the following.
 - 1. Apply when ambient and surface temperatures are 45 degrees F (7.5 degrees C) and rising and will remain above 45 degrees F (7.5 degrees C) for 24 hours immediately after application.
 - 2. Do not apply in freezing conditions or during precipitation.
 - 3. Apply using a cartridge sealant gun.
 - 4. Tool surface of material to seat the crack filler against the sides of the crack to provide proper adhesion.
 - 5. Do not use for cracks wider than 1/8-inch (3 mm).
 - 6. Do not use in lieu of an elastomeric joint sealant.
- E. Cleaning: Remove excess material before material cures. If material has cured, remove using mechanical methods that will not damage substrate.

END OF SECTION

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