

Proposed specification - For review by qualified architects and engineers.

BONSTONE®

SPECIFICATION FOR BONSTONE® JOINTFIL INSTALLATION FOR AMBIENT AREAS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. General Description of Work

Provide all labor, products and equipment required to properly install semi-rigid filler in joints in the interior concrete floor slabs of both ambient and refrigerated areas.

1.02 RELATED SECTIONS

A. SECTION 03300-CAST IN PLACE CONCRETE

B. SECTION 03252-CONTROL AND CONSTRUCTION JOINT FILLER

C. SECTION 03930-CONTROL JOINT SEALERS

1.03 REFERENCE STANDARDS

A. ACI 302.1R- Guide for Concrete Floor and Slab Construction

B. ASTM C 109- Compressive Strength of Hydraulic Cement Mortars

C. ASTM D 570- Water Absorption of Plastics

1.04 QUALITY ASSURANCE

A. Manufacturer qualifications: Company regularly engaged in the manufacturing of the products specified in this section.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Deliver products in original factory packaging bearing identification of product, manufacturer, and batch number. Provide Material Safety Data Sheets for each product.

B. Store products above 60 degrees F in an area protected from precipitation, construction activity, and direct sunlight. Store material in original containers. When adhesive containers are opened, reseal opened containers tightly, and as soon as possible, to avoid moisture absorption from the atmosphere.

C. Handle all products in accordance with Material Safety Data Sheets.

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PART 2 - PRODUCTS

2.01

- A. Joint filler for all areas with operating temperatures 50 deg.F or greater shall be "JOINTFIL", and all semi-rigid epoxies manufactured by Bonstone Materials Corporation, Mukwonago, WI (800-425-2214). No substitutes will be allowed.
- B. Joint filler for areas with operating temperatures 40 deg.F 70
- C. All materials shall be brought to site in original, unopened containers and stored in temperatures between 50-80 deg.F.

2.02 PERFORMANCE CRITERIA

- A. Reference Data Sheets for BONSTONE® JOINTFIL

PART 3 - EXECUTION

3.01 ACCEPTABLE INSTALLERS

- A. Installer shall have a minimum of three (3) years experience in the installation of semi-rigid fillers on industrial floors.

3.02 EXAMINATION

- A. It is the responsibility of the installer to inspect project and joint conditions and notify on-site management in writing of any deficiencies that might adversely affect the quality or durability of the work performed or his contract price. Start of work by the installer implies acceptance of conditions.

3.03 PREPARATION OF JOBSITE AND MATERIALS

- A. Work are should be free of obstructions and other trades. Slab should be visably dry and not be scrubbed for at least 24 hours prior to filler installation.

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B. ACI recommends that filling be deferred as long as possible to allow for maximum slab shrinkage and joint widening. For ambient temperatures a 90-120 day slab cure is advisable. Deferring filling until after facility is under permanent temperature control is best, if possible. For cooler and freezer areas, the filler installation should be performed only after the room has been brought down to its ultimate operating temperature and stabilized there for at least 48 hours, 3-5 days if possible.

C. Before start of actual work contractor shall install samples to demonstrate his intended procedures and finished product. Sample shall include at least 25' each of both contraction and construction joints, in both ambient and refrigerated areas, in the presence of on-site management. If procedures and finished product are approved they will be considered a standard for the entire project.

D. Joint Preparation

All saw-cut joints shall be thoroughly cleaned to their full depth or 2". Construction (formed) joints that are not sawn shall be cleaned to a minimum depth of 2". Preparation shall be performed using a vacuum-equipped saw that will reach the 2" minimum depth, and shall be used in a manner that takes both joint walls back to bare concrete, removing all saw laitance, curing compounds, sealers, debris, etc. Where joints have minor edge chips, said chips will be "squared off" and filled along with the joint itself.

E. The installer may, at his option, use a maximum of 1/4" of silica sand placed at the bottom of the saw-cut joints to prevent filler run-thru into the shrinkage crack. Compressible backer rod is prohibited in saw-cut joints unless they exceed 2" deep. Compressible backer rod may be used in through-slab(non-sawn) construction joints but must be recessed at least 2" below the slab surface.

Caution: The use of backer rod in any saw-cut joints less than 2" deep will result in the rejection of all saw-cut joints work.

3.04 APPLICATION OF ADHESIVE

Filler Installation; BONSTONE® JOINTFIL Epoxy:

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A. Pre-mix the JOINTFIL resin (A part), pre-mix the JOINTFIL resin (B Part), combine Parts A and B, and mix in accordance with manufacturers instructions.

B. Dispense JOINTFIL into joint and fill to within 1/2" of top. Allow to settle for 15-60 minutes, then apply second pass. Overfill (crown) with second pass and allow to cure.

C. After JOINTFIL has cured into a firm solid, razor off excess, leaving a flush profile. If JOINTFIL is hard to razor or rachets, heat filler slightly before razoring.

D. If finished profile is low, saw-cut out the JOINTFIL to a minimum depth of 1/2", refill (overfill)and allow to cure, razor off flush with floor surface.

END OF SECTION