

GUIDE SPECIFICATION FOR FLEXIBLE FOAM EXPANSION JOINT FILLER: CERAMAR®

SECTION 03 15 00 – CONCRETE ACCESSORIES

EXPANSION / CONTRACTION JOINT FILLER

Specifier Notes: This guide specification is written according to the Construction Specifications Institute (CSI) format. The section must be carefully reviewed and edited by the architect or engineer to meet the requirements of the project. Coordinate this section with other specification sections and the drawings.

Specifier Notes: W. R. MEADOWS® CERAMAR is a flexible foam expansion joint filler composed of a unique synthetic foam of isomeric polymers in a very small, closed-cell structure. Gray in color, CERAMAR is a lightweight, flexible, highly resilient material offering recovery qualities of over 99%. The compact, closed-cell structure will absorb almost no water.

CERAMAR flexible foam expansion joint filler provides an excellent joint filler and back-up material for use in either horizontal or vertical applications where expansion and contraction movements must be accommodated. CERAMAR is compatible with all currently popular hot- and cold-applied sealants, caulks, and hot-pour joint sealing compounds. It is lightweight and easy to cut or form in the field without waste. CERAMAR compresses easily for use with shrinkage-compensating concrete and it may be used to relieve stress and pressure in concrete pavements.

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Application of expansion/contraction joint filler.

1.02 RELATED SECTIONS

Specifier Notes: Edit the list of related sections as required for the project. List other sections dealing with work directly related to this section.

- A. Section 03 00 00 - Concrete.
- B. Section 07 92 00 – Joint Sealants.

1.03 REFERENCES

- A. ASTM D545 - Standard Test Methods for Preformed Expansion Joint Fillers for Concrete Construction (Nonextruding and Resilient Types).
- B. ASTM D1752 - Standard Specification for Preformed Sponge Rubber Cork and Recycled PVC Expansion Joint Fillers for Concrete Paving and Structural Construction.
- C. ASTM D5249 - Standard Specification for Backer Material for Use with Cold- and Hot-Applied Joint Sealants in Portland-Cement Concrete and Asphalt Joints
- D. ASTM D7174 - Standard Specification for Preformed Closed-Cell Polyolefin Expansion Joint Fillers for Concrete Paving and Structural Construction

1.04 SUBMITTALS

- A. Comply with Section 01 33 00 - Submittal Procedures.

- B. Submit manufacturer's product data and application instructions.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Store materials in a clean, dry area in accordance with manufacturer's instructions.
- C. Protect materials during handling and application to prevent damage.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. W. R. MEADOWS, INC., PO Box 338, Hampshire, Illinois 60140-0338. (800) 342-5976. (847) 683-4500. Fax (847) 683-4544. Web Site www.wrmeadows.com.

2.02 MATERIALS

- A. Performance-Based Specification: Expansion joint filler composed of a synthetic foam of isomeric polymers in a very small, closed-cell structure. Joint filler shall be non-absorbent and have a resiliency of 99%. Joint filler shall conform to the following standards and have the following requirements:
 1. ASTM D545 using a (1/2" (12.7 mm) thick test specimen).
 - a. Compression: 13 psi (9 g/mm²) 89.6 kPa.
 - b. Extrusion: 0.1" (2.5 mm).
 - c. Recovery: 99.21%.
 - d. Water Absorption, volume %: 0.246.
 2. ASTM D 1752, Type II.
 3. ASTM D5249, Type II.

Specifier Notes: Specify the thickness of the expansion-contraction joint filler according to project requirements.

4. Thickness: [1/4"] [3/8"] [1/2"] [3/4"] [1"] ([6.4 mm] [9.5 mm] [12.7 mm] [19.1 mm] [25.4 mm]).

- B. Proprietary-Based Specification: CERMAR Flexible Foam Expansion Joint Filler by W. R. MEADOWS.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine areas to receive expansion/contraction joint filler. Notify architect or engineer if areas are not acceptable. Do not begin application until unacceptable conditions have been corrected.

3.02 APPLICATION

- A. Install expansion-contraction joint filler in accordance with manufacturer's instructions.
- B. Position joint filler against walls, at interrupting objects or columns, and against abutting structures before concrete placement.
- C. Install joint filler 1/2" (6 mm) below concrete finish level.

Specifier Notes: If using SNAP-CAP® by W.R. MEADOWS, include D and F in the specification. If not, delete.

- D. Prior to sealing, slide expansion joint cap over the expansion joint.
- E. Place concrete and allow to cure.
- F. Insert screwdriver through the top of expansion joint cap, pull free and discard.
- G. Seal with suitable joint sealant.

3.04 PROTECTION

- A. Protect joint sealant from jobsite abuse prior to joint sealant application.

END OF SECTION