CONCRETE EXPANSION JOINTS

If you need more information on our complete line of expansion joints, here are four quick and easy access points:

- Visit our comprehensive website: www.wrmeadows.com
- Contact W. R. MEADOWS, INC. via email: info@wrmeadows.com
- Call toll-free: 1-800-342-5976
- Fax: 1-847-683-4544

Ideal Applications:
- Sidewalks
- Driveways
- Streets
- Single- and Multi-Level Floor Slabs
- Airport Runways
- Flatwork
- Commercial and Industrial Applications
- Bridge Structures

Minimize Concrete Cracking and Damage with

Whatever your needs... we have the solution.
W. R. MEADOWS
The Innovator in Concrete Expansion Joint Technology

Concrete expands and contracts with temperature and moisture changes. When the temperature rises or the moisture content of the concrete increases, expansion takes place. When temperatures drop, the concrete will contract. The provision to accommodate movement at predetermined locations, with proper joint applications prevents the development of stresses that could crack the concrete.

Joint type and spacing will vary according to each type of project, the type of structure, climatic conditions, and anticipated stresses in the concrete. The coefficient of thermal expansion in concrete is 0.0000055 per linear inch of concrete per degree Fahrenheit of temperature change, yielding approximately .66 inch of movement per 100 feet at a 100°F (38°C) temperature range.

To estimate expansion, multiply length in inches x number of degrees of anticipated temperature differential x 0.0000055. Use the resulting anticipated movement to determine correct thickness of the control joint and proper spacing for placement of the joint. Thinner joints (1/4", 3/8", or 1/2") (6.35 mm, 9.53 mm, or 12.7 mm) spaced at frequent intervals offer greater control than thicker joints spaced at greater intervals. The basic concept is to provide ample room for the concrete to expand and contract without creating damaging stresses and resultant cracking.

W. R. MEADOWS is the innovator in expansion joint technology. Our ASPHALT EXPANSION JOINT was developed in 1926 and to this day is still used in concrete surfaces throughout the world to help minimize damage as concrete expands and contracts. A wide array of product types are available, including patented (U.S. patent numbers 7,815,772; 8,057,638; 8,038,845; 8,241,463; 6,068,804) fiber-based products, plastic compositions, and epoxy-type fillers. Full details, including sizes, specifications, and features/benefits, are available on the individual product data sheets available at www.wrmeadows.com. Here is the expansion joint technology that W. R. MEADOWS offers:

**ASPHALT EXPANSION JOINT**
Concrete is a brittle material that expands and contracts due to temperature changes. The ASPHALT EXPANSION JOINT is designed with asphalt saturated with a synthetic resin to provide stable, non-absorbing, low density, economical, compressible fillers formed under heat and pressure between two asphalt-saturated liners. It is waterproof, permanent, flexible, and self-sealing.

**SPECIFICATIONS**
- ASTM D751
- ASTM D 75
- Federal Specification HH-F-341 F
- FAA Item P-610-2.7
- California Department of Transportation (Caltrans)

**CORK EXPANSION JOINT**
Cork is a completely natural, versatile, resilient, flexible, and non-extruding. It is produced to a uniform thickness and density from grey-colored, top-quality, blown sponge rubber. It is easily compressed and has a recovery of 95% or more of the original thickness and a density of not less than 10 pounds per cubic foot (160 kg per cubic meter).

**SPECIFICATIONS**
- ASTM D1751
- AASHTO M 213, Type I
- CRD-C 509 (Corps of Engineers)
- Federal Specification HH-F-341, Type II, Class B
- FAA Item P-610-2.7

**DECK-O-JOINT®**
This is a rigid preformed contraction joint that produces a straight-line crack on the surface of concrete slabs and locks into the aggregate just below the surface. SPEED-E-JOINT is durable, economical and eliminates waste in providing straight lines. It is quick and easy to install, top section pulls free once the joint has been placed completely. This creates a crack in the wet concrete.

**CORK EXPANSION JOINT**
Cork is produced from a natural, resilient, natural rubber bonded with synthetic resin. It is highly resilient, yet compressible without extrusion, and retains 95% of its original thickness after 50% compression.

**SPECIFICATIONS**
- ASTM D1751
- AASHTO M 213, Type II
- CRD-C 509 (Corps of Engineers)
- FAA Item P-610-2.7

**CORK EXPANSION JOINT**
Cork is produced from a natural, resilient, natural rubber bonded with synthetic resin. It is highly resilient, yet compressible without extrusion, and retains 95% of its original thickness after 50% compression.

**SPECIFICATIONS**
- ASTM D1751
- AASHTO M 213, Type II
- CRD-C 509 (Corps of Engineers)
- FAA Item P-610-2.7

**FIBER EXPANSION JOINT**
FIBRE EXPANSION JOINT is a unique, flexible, lightweight, fiber-based, non-staining, non-extruding, closed-cell expansion joint filler that is non-staining, non-extruding, stable, non-absorbing, low density, compressible, and offers an extended service life in both exterior and exterior applications.

**SPECIFICATIONS**
- ASTM D8139-17
- ASTM D1757

**FIBER LITE®**
A unique, lightweight material and expansion joint filler. This is a chemical-resistant, ultraviolet stable, non-staining, non-extruding, flexible, and resilient joint filler. It is made of cellular fibers securely bonded with a synthetic resin. It is highly resilient and has good recovery of 99% or more of the original thickness.

**SPECIFICATIONS**
- AASHTO Designation M213-65
- ASTM D1751

**POURTHANE SL**
Pourthane SL is an elastomeric, one-component, moisture-curing, non-sag, polyurethane sealant. The product requires no mixing and typically requires no priming to bond to many materials, including concrete and masonry.

**SPECIFICATIONS**
- Federal Specification HH-F-341 F, Type II
- CRD-C 509 (Corps of Engineers)
- FAA Item P-610-2.7
Concrete expands and contracts with temperature and moisture changes. When the temperature rises or the moisture content of the concrete increases, expansion takes place. When temperatures drop, the concrete will contract. The provision to accommodate movement at predetermined locations with proper joint applications prevents the development of stresses that could crack the concrete.

Joint type and spacing will vary according to each project type, the type of structure, climatic conditions, and anticipated stresses in the concrete. The coefficient of thermal expansion in concrete is 0.0000055 per linear inch of concrete per degree Fahrenheit of temperature change, yielding approximately .66 inch of movement per 100 feet at a 100° F (38° C) temperature range.

To estimate expansion, multiply length in inches x number of degrees of anticipated temperature differential x 0.0000055. Use the resulting anticipated movement to determine correct thickness of the control joint and proper spacing for placement of the joint.

FIBRE EXPANSION JOINT
is crushable, lightweight, dense, and non-compressible. FIBRE EXPANSION JOINT is versatile, resilient, flexible, and non-extending. When compressed to half of its original thickness, it will recover to a minimum of 75% of its original thickness. (U.S. patent numbers 7,815,772; 8,038,485; 8,241,463; 6,068,804)

SPECIFICATIONS:
- ASTM D1753
- AASHTO M 213
- CRD-C 509 (Corps of Engineers)
- Federal Specification MM-H-341F, Type I
- FAA Item P-610-2.7

X-FOAM®
expansion foam is a flexible, lightweight, non-staining, polypropylene, closed-cell expansion joint filler. The product expands, contracts, and is stable, non-absorbent, low density, compressible, and self-expanding. It offers an extended service life in both exterior and interior applications.

SPECIFICATIONS:
- AASTHO D6813-17
- ASTM D1753

FIBER LITE®
a unique, light-duty forming material and expansion joint filler. Fibre Lite® is manufactured in the United States and Canada, this product is perfect for forming walkways, patios, pool aprons and driveways. FIBER LITE is compatible with sealants, including polyurethane sealants.

SPECIFICATIONS:
- AASHO Designation M213-65
- ASTM D 1751

ASPHALT EXPANSION JOINT
fills the gap left in concrete due to temperature changes. This asphaltic material contains a non-reflecting opaque material, forming a flexible, lightweight, highly resilient, and resistant to chemical deterioration.

SPECIFICATIONS:
- ASTM D904
- AASHTO M 33
- Federal Specification MM-H-341 F
- FAA Item P-610-2.7
- California Department of Transportation (Caltrans)

CERAMAR®
expanded cork sheet joint filler is a blend of asphalts and mineral materials. It is lightweight, resilient, and flexible. It is ideal for decorative concrete installations.

SPECIFICATIONS:
- ASTM D 1752 (Sections 5.1-5.4, with compression requirement modified to 10-25 psi (0.07 - 0.17 MPa))
- AASHTO Designation Type 2 - ASTM D1774
- ASTM D1774

DECK-O-JOINT®
is a protective joint filler that is designed to accommodate installation errors, extrusion, and mildew. It is rigid, low-modulus, and adhesive. DECK-O-JOINT offers an ideal solution to controlling cracks in concrete.

SPECIFICATIONS:
- FAA Item P-610-2.7
- Federal Specification HH-F-341 F
- Type II, Class A
- AASHTO M 153, Type III
- CRD-C 509, Type I (Corps of Engineers)
- Federal Specification MM-H-341 F, Type II, Class A
- FAA Item P-610-2.7

POURTHANE®
is an elastomeric, one-component, moisture-curing, non-sag, polyurethane sealant. The product requires no mixing and typically requires no priming to bond to many materials, including concrete and masonry.

SPECIFICATIONS:
- ASTM C 155, Type II
- CRD-C 509, Type I (Corps of Engineers)
- Federal Specification MM-H-341 F, Type II, Class B
- FAA Item P-610-2.7

POURTHANE SL
is an elastomeric, one-component, moisture-curing, non-sag, polyurethane sealant specifically developed to be used as a multi-purpose horizontal joint sealant. The product is a moisture cure sealant with excellent adhesive properties and resistance to aging and weathering.
If you need more information on our complete line of expansion joints, here are four quick and easy access points:

- Visit our comprehensive website: www.wrmeadows.com
- Contact W. R. MEADOWS, INC. via email: info@wrmeadows.com
- Call toll-free: 1-800-342-5976
- Fax: 1-847-683-4544

Ideal Applications:
- Sidewalks
- Driveways
- Streets
- Single- and Multi-Level Floor Slabs
- Airport Runways
- Flatwork
- Commercial and Industrial Applications
- Bridge Structures

Minimize Concrete Cracking and Damage with W. R. MEADOWS. If you need more information on our complete line of expansion joints, here are four quick and easy access points:

- Visit our comprehensive website: www.wrmeadows.com
- Contact W. R. MEADOWS, INC. via email: info@wrmeadows.com
- Call toll-free: 1-800-342-5976
- Fax: 1-847-683-4544

Whatever your needs... we have the solution.

W. R. MEADOWS. A Family Company since 1926
QUALITY SERVICE INTEGRITY

© W. R. MEADOWS, INC. 2020
All Rights Reserved
www.wrmeadows.com
www.sealight.com
P.O. Box 338 • Hampshire, IL 60140-0338
Phone: 847/214-2100 • Fax: 847/683-4544
1-800-342-5976
www.wrmeadows.com • info@wrmeadows.com

PRINTED IN USA
04/22-1M