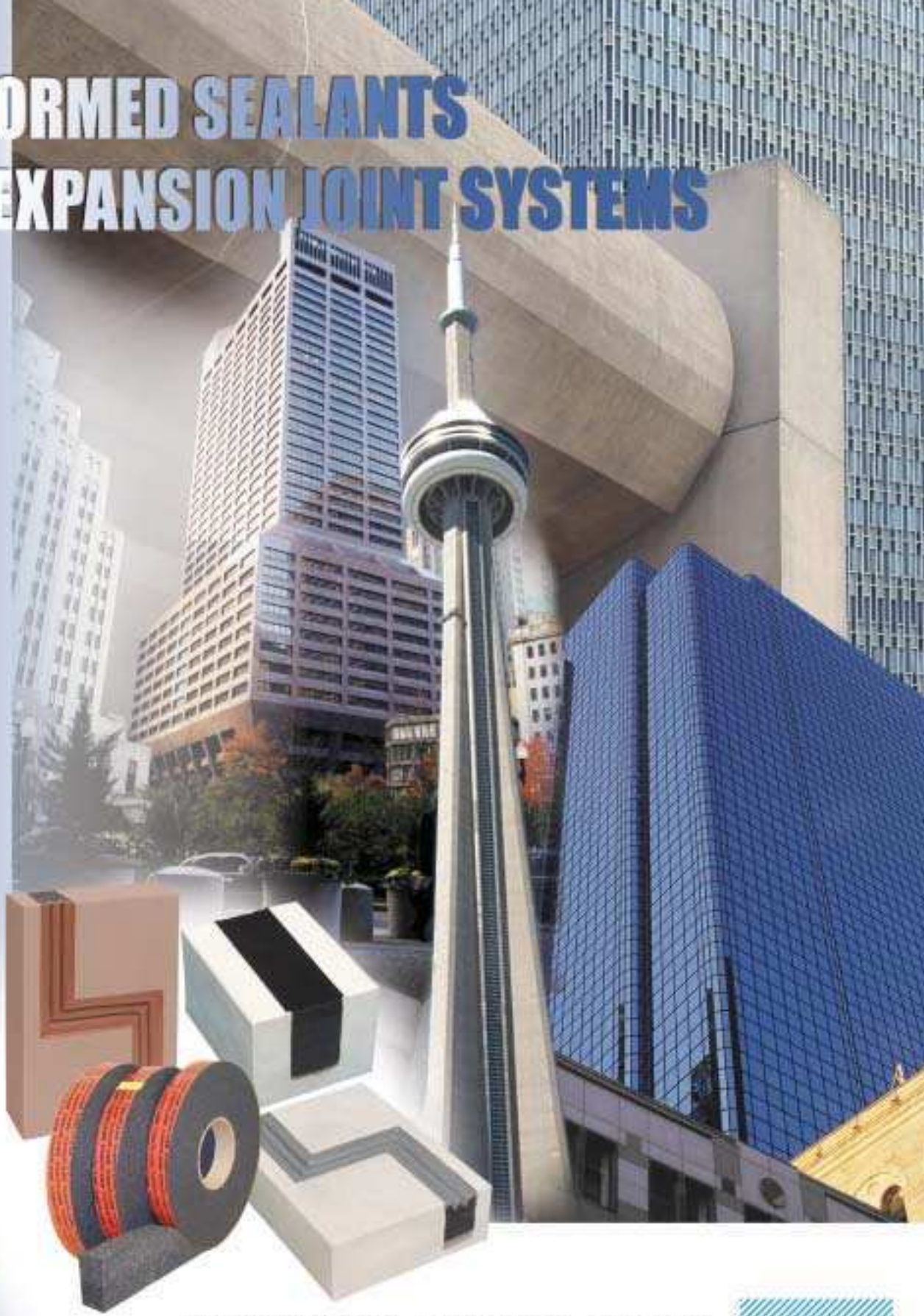
PREFORMED SEALANTS AND EXPANSION JOINT SYSTEMS



PROJECT PHOTOS - CHECKLISTS - ARTICLES

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CAD - TECH DATA - INSTALL DATA - SPECS

EMSEAL

WHY USE EMSEAL EXPANDING FOAM SEALANTS?

As full-performance independent primary seals, or as secondary seals to field-applied liquid sealants, expanding foam sealants dramatically enhance sealant system performance by providing:

- Compatibility with substrate materials and other sealants
- Reduced tension on the substrate
- Elimination of moisture between or behind caulk and backer-rod
- Ability to handle the effects of the air pressure differentials
- Thermal insulation value at joints
- Ability to handle varying joint-gap widths
- Non-invasive anchoring to substrates

TRACK RECORD

- Installations over 25 years old show minimal signs of deterioration, no drying or shrinkage, and minimal UV degradation
- With more than 35 years of manufacturing and development experience, the company and its products are here to stay

EASE OF INSTALLATION

- In most applications, no masking, mixing, tooling, curing, or cleanup is required
- Material is inserted into joint and adhered to one side. It then expands to seal the joint
- Step-by-step, illustrated instructions accompany each shipment

Figure 1: As a secondary sealant to liquid sealant with backer-rod.

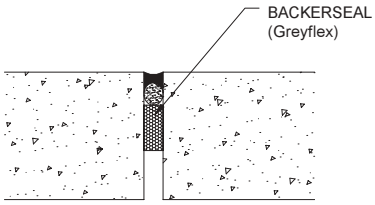
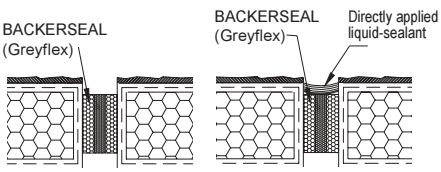


Figure 2: As a secondary sealant to directly-applied liquid sealant



BACKERSEAL (Greyflex) recessed from joint-face prior to direct field-application of liquid sealant.

BACKERSEAL (Greyflex) as part of a hybrid sealant system with directly-applied liquid sealant.

BACKERSEAL™ (GREYFLEX™)

USES: Walls, Doors, Windows, Panels, Control Joints, etc

- An economical, high-performance expanding foam secondary sealant to field-applied liquid sealant
- Ideally suited to EIFS, as well as concrete, brick, stone, etc
- Consists of acrylic-impregnated open-cell foam material combined with laminations of closed-cell EVA foam in sizes over 3/8" (10 mm)
- Non-staining and compatible with a wide range of liquid sealants
- Puncturing or failure of primary liquid sealant does not affect sealant system performance
- Supplied pre-compressed to smaller than joint size with a mounting adhesive on one face. Material is inserted into joint and adhered to one side. It then expands to seal the joint
- Sealing between the foam and substrate is achieved through a combination of the pressure-sensitive adhesive impregnation and the back pressure of the expanding foam
- R-value of 3.28/ inch of depth adds thermal insulation to joint gaps
- Standard sizes from 1/8" (3 mm) to 10" (250 mm)
- Movement capability is +25%, -25% (50% total) of nominal material size

HORIZONTAL COLORSEAL™

USES: Non-trafficked Decks, Roadways, Parapets, Roofs, Concrete Covers on Above-Grade Tunnels, Elevated Railway Beds

- Produced by coating an acrylic impregnated open-cell polyurethane foam with low modulus silicone
- Supplied in shrink-wrapped lengths (sticks), precompressed to less than joint size, which after insertion expand against the joint faces
- Non-invasive anchoring and sealing against the substrate is achieved through a combination of the back pressure caused by the stored strain energy of compression in the foam backing, the butyl (or field-applied epoxy) adhesive, and the field installation of a corner bead of silicone at the substrate-to-bellows interface
- R-value of 3.28/ inch of depth adds thermal insulation to joint gaps
- Standard sizes from 3/4" (20mm) to 10" (250mm)
- Movement capability is +50%, -50% (100% total) nominal material size
- Available in **11 standard colors**. Precast White, Natural Stone, Gray, Black, Bronze, Sandstone, Adobe Tan, Dusty Rose, Rustic Brick, Blue Spruce, Charcoal.
  Custom colors: Consult EMSEAL.

USA Toll Free: 800.526.8365 PH: 508.836.0280 FX: 508.836.0281
CANADA Toll Free: 866.436.7325 PH: 416.740.2090 FX: 416.740.0233

COLORSEAL™

USES: Curtainwall, New-To-Existing, Skywalks, Masonry, Metal Panels, Precast, EIFS, Stone, etc

- An integrated primary plus secondary seal
- Combines factory-applied, controlled, and cured silicone facing with expanding foam sealant backing
- Expanding foam backing is acrylic impregnated open cell foam combined with laminations of closed-cell foam
- Puncturing of silicone facing does not affect sealant system performance
- Sealing between the foam and substrate is achieved through a combination of the pressure-sensitive adhesive impregnation and the backpressure of the expanding foam
- Backpressure maintains seal and ensures that silicone is never under tension
- Supplied in shrink wrapped lengths (sticks)
- Precompressed to smaller than joint size with a mounting adhesive on one face, material is inserted into joint and adhered to one side. It then expands to fill the joint. Addition in the field of a silicone corner bead ensures sealing between the silicone facing and substrate
- Non-invasive anchoring, eliminates drilling into substrates typical of strip-seal systems
- R-value of 3.28/ inch of depth adds thermal insulation to joint gaps
- Standard sizes from 3/8" (10mm) to 10" (250mm)
- Sizes up to 3/4" (20 mm) have single convex facing
- Sizes from 1" (25 mm) and bigger have multiple bellows facing
- Movement capability is +25%, -25% (50% total) of nominal material size
- Available in **11 standard colors**. Precast White, Natural Stone, Gray, Black, Bronze, Sandstone, Adobe Tan, Dusty Rose, Rustic Brick, Blue Spruce, Charcoal.
  Custom colors: Consult EMSEAL.

SEISMIC COLORSEAL™

USES: High-Movement Curtainwall, New-To-Existing, Skywalks, Seismic, Masonry, Metal Panels, etc

- Ideally suited to EIFS, curtainwall and metal cladding systems, as well as concrete, brick, stone, etc
- Combines factory-applied and cured silicone facing with permanently elastic acrylic-impregnated open-cell foam sealant backing
- Back pressure maintains seal and ensures that silicone is virtually never under tension
- Supplied in shrink wrapped lengths (sticks)
- Pre-compressed to smaller than joint size with a mounting adhesive on one face, material is inserted into joint and adhered to one side. It then expands to seal the joint. Addition in the field of a silicone corner bead ensures sealing between the silicone facing and substrate
- Non-invasive anchoring, eliminates drilling into substrates typical of strip-seal systems
- Easily installed into inside-corner conditions impossible to seal with rubber-and-rail type strip-seal systems
- R-value of 3.28/ inch of depth adds thermal insulation to joint gaps
- Standard sizes from 3/8" (8 mm) to 10" (250 mm)
- Sizes up to 3/4" (20 mm) have single convex facing
- Sizes from 1" (25 mm) and bigger have multiple bellows facing
- Movement capability is +50%, -50% (100% total) of nominal material size
- Available in **11 standard colors**. Precast White, Natural Stone, Gray, Black, Bronze, Sandstone, Adobe Tan, Dusty Rose, Rustic Brick, Blue Spruce, Charcoal.
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25V™

USES: Masonry Walls, New to Existing, Shadow Lines

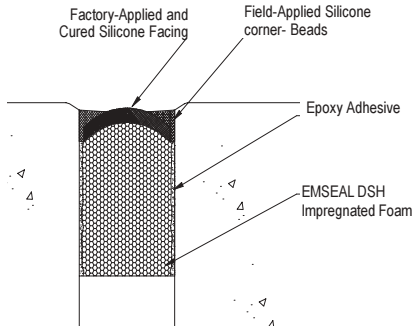
- Long-term, high-performance seal for above-grade wall joints in concrete, brick, stone, etc. where black reveal or shadow-line effect is desired
- Permanently elastic, high-density, open-cell polyurethane foam, impregnated with water-based, polymer-modified asphalt, compressed to approximately 25% of its uncompressed dimension
- Supplied pre-compressed to smaller than joint size with mounting adhesive on one face to aid installation. Material is inserted into the joint and adhered to one side. It then expands to seal the joint
- Sealing between the foam and substrate is achieved through a combination of the pressure-sensitive adhesive impregnation and the back pressure of the expanding foam
- Material is installed flush or near to the surface as a primary seal
- Standard sizes from 1/8" (3 mm) to 6" (150 mm)
- Movement capability is +25%, -25% (50% total) nominal material size
- R-value of 3.28/ inch of depth adds thermal insulation to joint gaps

20H SYSTEM™

USES: Intermediate level deck joints, perimeter joints, sidewalks, aprons, joints at utility rooms, parapets, below-grade foundation wall joints, icefloors, etc

- Economical, resilient, traffic-durable seal
- System consists of 20H foam, epoxy adhesive & topcoat
- Permanently elastic, high density, open-cell polyurethane foam, impregnated with water-based, polymer-modified asphalt, compressed to approximately 20% of its uncompressed dimension
- Supplied pre-compressed to smaller than mean joint size, installed flush with or near to surface into wet epoxy adhesive, the material expands to seal the joint
- Exposed top surface is treated with Topcoat flexible coating to enhance sealing and durability
- Movement capability is +25%, -25% (50% total) nominal material size
- Standard sizes from ½" (12 mm) to 4" (100 mm)

(All EMSEAL deck and floor joint systems are ADA compliant and can be fire-rated - Contact EMSEAL)



DSH SYSTEM™

USES: Traffic-durable seal for a variety of deck and slab applications

- Permanently elastic, high density, open-cell polyurethane foam, impregnated with water-based, polymer-modified asphalt, compressed to approximately 20% of its uncompressed dimension
- The high-density foam backing is coated with a factory-applied, controlled, and cured coating of traffic-grade silicone
- The silicone provides weathering, waterproofing, and fuel resistance as well as aesthetic and movement advantages over the systems precursor, 20H
- System consists of DSH foam, epoxy adhesive and liquid silicone for corner beads
- Supplied pre-compressed to smaller than mean joint size; installed near to surface into wet epoxy adhesive
- Standard sizes from ½" (12mm) to 6" (150 mm)
- Movement capability is +25%, -25% (50% total) of nominal material size

(All EMSEAL deck and floor joint systems are ADA compliant and can be fire-rated - Contact EMSEAL)

EMSEAL JOINT SYSTEMS, LTD.,
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EMSEAL standard warranties are available on request.

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