EXPANSION JOINTS AND TRANSITION SEALANTS

Pre-Compressed, Acrylic-Impregnated Foams | Preformed Extrusions
Closed-Cell Foams | Monolithic Polyurethane Methacrylate | Gun-Grade Foams
Willseal’s best-in-class pre-compressed and acrylic-impregnated foam products for horizontal and vertical joint applications.

Tremco’s industry-leading joint sealants, polyurethane-methacrylate technology, pre-formed extrusions and gun-grade foams.

For over 110 combined years, our products have been continuously specified and installed on thousands of new construction and restoration projects worldwide, and have always stood for the highest quality sealants.

EXPANSION JOINT SYSTEMS

Willseal and Tremco products are designed for maximum waterproofing, thermal, sound, and air-tightness to meet global passive housing standards — and feature superior durability, excellent +/- movement capabilities, and streamlined installation.

MARKETS SERVED:
- Commercial construction
- Industrial / manufacturing
- Educational and institutional
- Infrastructure and DOT
- Residential construction
- Stadiums and arenas
- Parking facilities
- Medical facilities
- Fire protection

JOINT APPLICATIONS:
- Traffic-grade horizontal joints
- Primary vertical joints
- Curtain walls, windows and flashing
- Control, longitudinal and transverse joints
- Exterior panel system joints
- Pre-cast concrete and built-up walls
- Fire-rated joints
- Seismic, large and retrofit joints
- Below-grade applications

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## Joint Selection Guide

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1. FR-V and FR-H max throat openings are dependent on UL system listing. Please reach out to Tech Resources for additional information.
2. Tremco-PUMA EJS is required for UV stability.
3. Reference the current product data sheets on our website at www.tremcosealants.com for more specific product information.
4. For specific tie-in recommendations and instructions, please contact your local Tremco Sales or Technical Service Representative.

### Applications & Properties

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<th>PRODUCT</th>
<th>LiquidSlate</th>
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EXPANSION JOINT PRODUCTS

With a wide variety of pre-compressed, acrylic-impregnated foams, pre-formed extrusions, monolithic Polyurethane Methacrylate and gun-grade foams, Willseal and Tremco have the ideal solution for any expansion joint or transition sealant project.

Whether you require traffic-grade horizontal, color-matched vertical, 2 to 3 hour fire-rated, seismic capabilities, waterproof, soundproof, dust-proof or airtight seals, you’ll find a variety of options in the following pages.

All products, however, feature unmatched quality and durability, excellent +/- movement capabilities, and innovative, streamlined installations designed to help create safer, greener, high-performance structures.

COLOR OPTIONS

Many of our joint sealant solutions are available finished in any standard Spectrem® color — in addition to a broad range of industry standard colors. For even greater customization, we can custom-match most colors to blend in perfectly with your project.

(Products with this icon indicate the availability of color options.)

SPECTREM® STANDARD COLORS

WHITE
PRECAST WHITE
IVORY
ANODIZED ALUMINUM
BUFF
GRAY
ALUMINUM STONE
LIGHT BROWN
CHAMPAGNE
DUSTY ROSE
ADOBE TAN
RUSTIC BRICK
CHARCOAL
BRONZE
DARK BRONZE
BLACK

All colors shown are approximate and may not reflect sheen or shade precisely, as varying amounts of aggregate will alter light reflecting properties. Tremco always recommends a test patch to gain final color approval. Different lighting conditions can influence color appearance. For true color please view in daylight. Some colors may require a minimum quantity. Custom colors are available upon request. Contact Tremco Customer Service for more information.

Willseal® 150

Willseal® 150 is a pre-compressed, self-expanding foam joint sealant, engineered to perform as a highly flexible, weathertight, primary seal in vertical exterior applications. Willseal 150 is specifically designed to provide a permanent seal against rain, wind, sound, and dust. Willseal 150 is waterproof to a wind-driven rain at 16.1 psf (90mph) making an optimal primary joint.

FEATURES & BENEFITS:

- No unbonded laminations
- Paintable with water-based paints
- Can be installed in many weather and temperature conditions
- No mixing, masking, staining or mess

COMMON APPLICATIONS:

- Primary vertical construction and expansion joints
- Exterior panel systems - masonry, stone, EIFS, curtain walls
- Manufactured housing and log homes
- Pre-cast concrete walls, tilt-up walls

Willseal® 250

Willseal® 250 is a pre-compressed, self-expanding foam joint sealant with a traffic grade silicone coating engineered to perform in horizontal applications subject to solvents and fuels such as those found in parking garages, road and bridge joints, and airport runways. Willseal 250 is specifically designed to provide a maximum seal in structures with shear and rapid movement.

FEATURES & BENEFITS:

- Allows for up to 100% (±50%) movement from mean joint size
- Designated as a dual expansion joint seal
- Advanced acrylic impregnation without heavy fillers
- True tensionless system

COMMON APPLICATIONS:

- Primary horizontal expansion joints with vehicular traffic
- Parking garages, road and bridge joints
- Plaza decks on grade

With a wide variety of pre-compressed, acrylic-impregnated foams, pre-formed extrusions, monolithic Polyurethane Methacrylate and gun-grade foams, Willseal and Tremco have the ideal solution for any expansion joint or transition sealant project.
Willseal® 600

Willseal® 600 is a pre-compressed, self-expanding foam joint sealant, engineered to perform as a highly flexible, weathertight, primary seal in vertical exterior applications. Willseal 600 can also provide the ideal foundation for a large variety of wet sealants, such as silicone, polyurethane, polysulfide, and acrylic if desired.

**FEATURES & BENEFITS:**
- Driving-raintight up to 12.5 psf
- Never under tension or cohesion strain
- Minimal surface prep and no priming required
- Vapor-permeable, paintable, and seals gaps as small as 1/8”

**COMMON APPLICATIONS:**
- Primary expansion, control, isolation and retrofit joints
- Exterior panel systems - masonry, stone, EIFS, curtain walls
- Pre-cast concrete walls, tilt-up walls
- Window and flashing applications
- Interior vapor, dust, acoustical and air control

Willseal® 600s

Willseal® 600s is a pre-compressed, self-expanding foam joint sealant, engineered to perform as a highly flexible, weathertight, secondary seal in vertical exterior applications. Willseal 600s can also provide the ideal foundation for a large variety of wet sealants, such as silicone, polyurethane, polysulfide, and acrylic.

**FEATURES & BENEFITS:**
- Allows for up to 100% (+/- 50%) movement
- Never under tension or cohesion strain
- Minimal surface prep and no priming required

**COMMON APPLICATIONS:**
- Secondary construction joints – for use behind wet-applied sealants
- Exterior panel systems - masonry, stone, EIFS, curtain walls
- Pre-cast concrete walls, tilt-up walls
- Window and flashing applications
- Interior vapor, dust, acoustical and air control

Willseal® Color Coreseal V

Willseal® Color Coreseal V is a vertical dense, closed cell foam for larger movement joints. It has a colorized silicone skin on the exposed face for chemical and puncture resistance in a waterproof joint. Due to its strong closed cell structure, it has excellent compression, tension and shear capabilities.

**FEATURES & BENEFITS:**
- Accommodates rapid rates of joint movement (ASTM E1399, Class II & III)
- Made from a monolithic foam that will not delaminate like multi-layer or compression-bonded products

**COMMON APPLICATIONS:**
- Primary vertical joints
- Seismic, large and retrofit joints
- Large expansion joints requiring an architectural finish

Willseal® Color Coreseal H

Willseal® Color Coreseal H is a dense, closed cell foam for larger movement joints. It has a traffic grade silicone skin on the exposed face which provides resistance to gasoline and oil. Due to its strong closed cell structure, it has excellent compression, tension and shear capabilities. It is installed with epoxy that permanently bonds the Color Coreseal H in place.

**FEATURES & BENEFITS:**
- Accommodates rapid rates of joint movement (ASTM E1399, Class II & III)
- Monolithic foam will not delaminate like multi-layer products

**COMMON APPLICATIONS:**
- Below-grade applications
- Highway longitudinal and transverse joints
- Bridge and parking expansion joints (with traffic grade silicone)
- Seismic, large and retrofit joints
**Willseal® FR-V**

Willseal® FR-V is a factory controlled, watertight, clean handling, UV stable, sound attenuating, energy efficient and fire rated joint seal with a single, unified installation process. Willseal FR-V provides a 2- and 3-hour fire rated vertical seal.

**FEATURES & BENEFITS:**
- Innovative internal smoke barrier prevents toxic gasses and fumes from penetrating the joint system
- Waterproof silicone faces on fire-retardant impregnated foam
- No need for additional intumescent bellows
- Non-invasive anchoring means no drilling or modification to the substrates
- UL 2079 tested and certified

**COMMON APPLICATIONS:**
- Vertical wall installations
- Behind other expansion joint covers, plates or fillers

**Willseal® FR-H**

Willseal® FR-H is a factory controlled, watertight, clean handling, UV stable, sound attenuating, energy efficient and fire rated joint seal with a single, unified installation process. Willseal FR-H provides a 2- and 3-hour fire rated vertical seal.

**FEATURES & BENEFITS:**
- Innovative internal smoke barrier prevents toxic gasses and fumes from penetrating the joint system
- Waterproof silicone faces on fire-retardant impregnated foam
- No need for additional intumescent bellows
- Non-invasive anchoring means no drilling or modification to the substrates
- UL 2079 tested and certified

**COMMON APPLICATIONS:**
- Horizontal expansion joints
- Behind other expansion joint covers, plates or fillers

**Willseal® Seismic**

Willseal® Seismic is a one-step primary sealant for exposed areas where color matching is important. It has a puncture resistant, elastomeric coating on the exterior surface, which can be factory colored to match most construction substrates or sealants. The joint is watertight and color matched.

**FEATURES & BENEFITS:**
- Accommodates rapid rates of joint movement
- Excellent compression recovery
- Permanently elastic and weathertight
- Allows for up to 100% (+/- 50%) movement

**COMMON APPLICATIONS:**
- Primary vertical construction joints
- Expansion, control and isolation joints
- Retrofit and seismic joints
- Pre-cast concrete walls, tilt-up walls
- Exterior panel systems - masonry, granite, metal, EIFS, curtain walls

**Willseal® Coreseal**

Willseal® Coreseal is a preformed, compressible system that is impermeable to water and provides a watertight seal. It meets all applicable standards for compressible sealants and performs under extreme conditions including bridge and parking structure expansion joints. It provides a watertight, dustproof, airtight, UV stable, chemically resistant, soundproof, and insulated seal.

**FEATURES & BENEFITS:**
- Unique profile for easier install and less tension
- Watertight, airtight, dust-proof and soundproof
- Slip resistant

**COMMON APPLICATIONS:**
- Primary horizontal and vertical joints
- Highway longitudinal and transverse joints
- Bridge and parking structure expansion joints
Dymonic® Simple Seal is a medium-modulus, preformed polyurethane extrusion specifically designed to bridge joints under elastomeric wall coatings. Dymonic Simple Seal is bonded with Dymonic® 100 polyurethane sealant to a wide range of substrates to provide a watertight seal.

**FEATURES & BENEFITS:**
- Easy installation reduces time and labor costs
- Superior flexibility and +/- movement capabilities
- High strength provides durability and excellent tear resistance

**COMMON APPLICATIONS:**
- Expansion joints
- Window/door perimeters
- EIFS joints
- Parapet walls
- Transition seals
- Curtain wall joints
- Other lap joints that will be coated with an elastomeric coating

Proglaze® ETA is a pre-engineered translucent silicone transition assembly for junctions between assemblies throughout the building envelope. It is comprised of a flat, ribbed silicone extrusion which is adhered with Spectrem® 1 Silicone Sealant to ensure a durable connection and positive seal.

**FEATURES & BENEFITS:**
- Can span and seal across irregular geometries
- Translucent silicone allows installers to verify a complete seal
- Variety of sizes available
- Durable, flexible connection between components

**COMMON APPLICATIONS:**
- Roof-to-wall, window-to-wall and foundation-to-wall connections
- Expansion, drift and control joints
- Floor deflection joints
- Corner connections
- Penetrations

Spectrem® Simple Seal high-performance silicone extrusions are designed to seal joints and gaps ranging from low to high-movement conditions. Spectrem Simple Seal provides flexible, tear-resistant properties that will help to protect your building from air and moisture penetration.

**FEATURES & BENEFITS:**
- Easy installation reduces time and labor costs
- Superior flexibility and +/- movement capabilities
- High strength provides durability and excellent tear resistance

**COMMON APPLICATIONS:**
- Window/door perimeters
- EIFS joints
- Parapet walls
- Skylights
- Aluminum window seals
- Transition seals
- Curtain wall joints
- Sheet metal roof joints and other lap joints

Tremco PUMA EJS is a revolutionary, monolithic liquid polyurethane methacrylate (PUMA) expansion joint system. It features superior durability, repairability, +/- 1/2" movement, and rapid-cure to minimize downtime.

**FEATURES & BENEFITS:**
- Sits completely flush to the substrate, resulting in a seamless and snag-free expansion joint solution
- Accommodates movement of up to +/- 1/2" in applications where a traditional sealant joint is not feasible or desirable
- Waterproof and airtight
- Can be opened to traffic in as little as 1 hour after installation, and installed in temperatures as low as 20 °F (-7 °C)

**COMMON APPLICATIONS:**
- Primary horizontal expansion joints with vehicular traffic
- Parking garage, warehouse floor, road and bridge joints
- Plaza decks on grade

Tremco PUMA EJS

Proglaze® ETA

Spectrem® Simple Seal

Tremco PUMA EJS

Proglaze® ETA

Spectrem® Simple Seal

Tremco PUMA EJS

Proglaze® ETA

Spectrem® Simple Seal
ExoAir® Flex Foam

ExoAir® Flex Foam is a single-component, high performance, gun-grade polyurethane foam that performs as a flexible thermal barrier. With an industry leading movement range of +/-15%, ExoAir Flex is CFC-free and can be applied over a wide temperature range, making it a reliable, four-season solution.

FEATURES & BENEFITS:
• Cures to a very fine, highly-elastic foam structure
• Thermal insulation in demanding, high-movement areas
• Absorbs up to 3 times more movement than competing expandable foams
• The industry’s only true flexible foam
• Adheres to most common building materials

COMMON APPLICATIONS:
• Thermal and sound barrier around window/door perimeters
• Window-to-air barrier connection points

ExoAir® LEF

ExoAir® LEF is single-component, CFC-free, all-season, high performance, gun-grade polyurethane foam that performs as a thermal barrier. It is an effective joint filler in hidden applications, and is highly-effective around window and door frame joints.

FEATURES & BENEFITS:
• Effective as a thermal and sound barrier
• Low pressure build
• Low water absorption
• Tack-free in 10 minutes and resistant to decay and heat

COMMON APPLICATIONS:
• Gaps around penetrations and in cavity walls
• Joint filler in hidden applications
• Around window and door frame joints