Complete Building Envelope Protection

Total protection from water intrusion. From the elements. From caustic chemicals, deicers, thermal movement, seismic movement, fire and more. Tremco has developed the most comprehensive suite of building envelope protection products available in the industry.

This singular focus ensures seamless compatibility of products and systems. More comprehensive warranties. Single-source accountability. And, knowledgeable representatives in major markets across the country to help assess unique job requirements, ensure proper product selection, conduct jobsite tests and provide on-site assistance.

But we didn’t stop there. We’re continually pioneering advances in sealant and waterproofing technology to enable products to set new performance standards, dramatically reduce production schedules and provide ever-increasing flexibility in project design and implementation.

We’ve built a reputation for developing better ways to get the job done. See for yourself at tremcosealants.com.

CONTENTS

Air Barriers.................................................................................................................................. 3
Below-Grade Waterproofing...................................................................................................... 4
Traffic Coatings........................................................................................................................ 5
Expansion Joints...................................................................................................................... 6
Sealants.................................................................................................................................. 7
Firestopping................................................................................................................................. 8
Polyurethane Methacrylate (PUMA) Technology................................................................. 8
Glazing....................................................................................................................................... 9
Transitions................................................................................................................................. 10
Architectural Wall Coatings...................................................................................................... 10
## Air Barriers

Tremco offers vapor-permeable and vapor-retarding air barrier systems formulated for compatibility with engineered transitions and high performance sealants to provide continuity at critical terminations and connections.

<table>
<thead>
<tr>
<th>Air Barriers</th>
<th>Description</th>
<th>Basic Uses</th>
<th>Applicable Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Field-Applied Air Barriers</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Exakor® 110 | Self-adhered air and vapor barrier membrane consisting of 36 mils of SBS rubber asphalt laminated to a 4-mil cross-laminated high-density polyethylene film with a siliconized release liner. | • Controls flow of air water vapor and liquid water  
• Used as a stand-alone membrane or as a system component with Exakor fluid-applied air barrier systems  
• Used in conjunction with other accessories to provide a comprehensive air barrier system | AAMA 711  
ASTM C1305  
ASTM D1970  
ASTM D1676  
ASTM D870  
ASTM D4541  
ASTM E154  
ASTM E283  
ASTM E2178  
ASTM D412  
ASTM E96  
ASTM E331  
ASTM E2357 |

| Exakor® 110AT NFPA 285 Tested | Self-adhered air and vapor barrier membrane consisting of a 22-mil composite impermeable membrane that is comprised of 16 mils of butyl and 6 mils of HDPE facer. | • Controls flow of air water vapor and liquid water  
• Used as a stand-alone membrane, detailing accessory, thru-wall flashing, or as a system component with ExoAir fluid-applied air barrier systems | AATCC-127  
ASTM C1305  
ASTM D1070  
ASTM D1970  
ASTM D1676  
ASTM D870  
ASTM D933  
ASTM E96  
ASTM E331  
ASTM E2357 |

| ExoAir® 120 | Single-component, elastomeric, asphalt emulsion, fluid-applied air and vapor-barrier membrane that may be rolled or sprayed on above-grade wall assemblies. | • Controls flow of air, water vapor and liquid water  
• Specified for projects requiring extended UV resistance, high temperatures, and E84 & NFPA 285 testing  
• Used in conjunction with other accessories to provide a comprehensive air barrier system | AAMA 713  
ASTM C1305  
ASTM D1970  
ASTM D870  
ASTM D4541  
ASTM E283  
ASTM E2178  
NFPA 285 |

| ExoAir® 130 NFPA 285 Tested | Fluid-applied, synthetic, UV-resistant, air and vapor barrier membrane that may be rolled or sprayed on above-grade wall assemblies. | • Controls flow of air, water vapor and liquid water  
• Used in conjunction with other accessories to provide a comprehensive air barrier system | AAMA 713  
ASTM C1305  
ASTM D1970  
ASTM D870  
ASTM D4541  
ASTM E283  
ASTM E2178  
NFPA 285 |

| ExoAir® 220 NFPA 285 Tested | Single-component, elastomeric, asphalt emulsion, fluid-applied, vapor-permeable air barrier membrane that may be rolled or sprayed on above-grade wall assemblies. | • Controls flow of air and liquid water  
• Allows water vapor to pass through  
• Specified for projects requiring NFPA 285 testing  
• Used in conjunction with other accessories to provide a comprehensive air barrier system | AAMA 713  
ASTM C794  
ASTM D1970  
ASTM D4541  
ASTM E2178  
ASTM E96  
ASTM E331  
ASTM E2357 |

| ExoAir® 230 NFPA 285 Tested | Fluid-applied, synthetic, UV-resistant, vapor-permeable air barrier membrane that may be rolled or sprayed on above-grade wall assemblies. | • Controls flow of air and liquid water  
• Allows water vapor to pass through  
• Specified for projects requiring NFPA 285 testing  
• Used in conjunction with other accessories to provide a comprehensive air barrier system | AAMA 713  
ASTM C794  
ASTM D1970  
ASTM D4541  
ASTM E2178  
ASTM E96  
ASTM E331  
ASTM E2357 |

| ExoAir® 707F NFPA 285 Tested | Self-adhered air and vapor barrier membrane consisting of 32 mils (80 mm) of self-adhering SBS rubber asphalt laminated to an 8-mil (20 mm) cross-laminated, high-density polyethylene film with a siliconized release liner. | • Areas that require masonry flashing material  
• Brick ledges | AAMA 713  
ASTM D1970  
ASTM E154  
ASTM E283  
ASTM D2717  
NFPA 285  
ASTM E331  
ASTM E2357 |

| ExoAir® Termination Mastic | Single-component mastic formulated from polymers, plasticizers and select additives. | • Sealing T-joints  
• Overlaps in detail areas  
• Repair mastic for ExoAir 110, TWF, ExoAir 120 SPF/R and ExoAir 220  
• Controls flow of air, water vapor and liquid water  
• Used behind metal panels  
• Specified for projects requiring extended UV resistance, high temperatures, and E84 & NFPA 285 testing  
• Used in conjunction with other accessories to provide a comprehensive air barrier system | AAMA 713  
ASTM D1970  
ASTM C1305  
ASTM D1070  
ASTM D933  
ASTM E96  
ASTM E331  
ASTM E2357 |

| Dynamic® 100 NFPA 285 Tested | High-performance, medium-modulus, low-VOV, UV-stable, non-sag polyurethane sealant. Highly versatile sealant that has competitive movement capability and the ability to adhere to damp and green concrete. | • Used to detail the rough opening for fluid applied flashing applications  
• Used to detail board and fastener heads prior to the installation of ExoAir membranes  
• Used to detail around penetrations  
• Used to repair damaged ExoAir membranes  
• Controls flow of air, water vapor and liquid water  
• Used behind metal panels  
• Specified for projects requiring extended UV resistance, high temperatures, and E84 & NFPA 285 testing  
• Used in conjunction with other accessories to provide a comprehensive air barrier system | AAMA 713  
ASTM C1305  
ASTM D1070  
ASTM D933  
ASTM E96  
ASTM E331  
ASTM E2357 |

| Spectrum® T NFPA 285 Tested | High-performance, ultra-low-modulus, one-component, non-sag, moisture-cure silicone joint sealant. | • Used for detailing post installation of ExoAir 110 and ExoAir 110AT  
• Bonds well to the HDPE facer of self-adhered membranes  
• Seals the Proglaze ETA silicone extrusion | AAMA 713  
ASTM C1305  
ASTM D1070  
ASTM D933  
ASTM E96  
ASTM E331  
ASTM E2357 |

| Pre-Applied Air Barrier | | | |
| SecureMax® Exakor® 430 | Pre-applied fluid-applied, synthetic, UV-resistant, vapor-permeable air/water barrier membrane, applied in a factory setting applied to USG's Brand Ultralight Glass-Mat Sheathing panels. | • Controls flow of air and liquid water  
• Allows water vapor to pass through  
• Specified for projects requiring extended UV resistance, high temperatures, and E84 & NFPA 285 testing  
• Used in conjunction with other accessories to provide a comprehensive air barrier system | Past Trade (Trade Marked)  
ASTM C297  
ASTM C1305  
ASTM D1305  
ASTM D1970  
ASTM D1676  
ASTM D4073  
ASTM E154  
ASTM E2357 |

SP = Spray  R = Roller
## Below-Grade Waterproofing

A comprehensive below-grade line of products to provide high-performance waterproofing protection and solutions for even the most challenging applications.

<table>
<thead>
<tr>
<th>Below-Grade Waterproofing</th>
<th>Description</th>
<th>Basic Uses</th>
<th>Applicable Standards</th>
</tr>
</thead>
</table>
| TREMproof® Amphibia       | Co-extruded, watertight membrane with three active layers – a watertight EPDM barrier, an active core with the ability to seal when penetrated or cut, and an active barrier which seals overlaps — and a non-woven fabric layer promoting the mechanical adhesion of the membrane to concrete. | • Blindsides walls  
• Beneath slabs  
• Tunnels  
• Elevator pits  
• Submerged conditions | • ASTM D412  
• ASTM D393  
• ASTM D1970  
• ASTM D624  
• ASTM E98  
• ASTM C836  
• ASTM E154  
• ASTM D433  
• ASTM D4988  
• ASTM D5385  
• ASTM D570 |
| TREMproof® 250GC         | Primerless, HDPE membrane featuring a high-performance butyl adhesive for damp and green concrete applications. | • Backfilled walls  
• Tunnels – cut & cover  
• Back-filled walls  
• Vegetated roofs  
• Split-slab  
• Planters  
• Submerged conditions | • ASTM D412  
• ASTM D1970  
• ASTM E154  
• ASTM D1353  
• ASTM D7004  
• ASTM D5329  
• ASTM D9192  
• ASTM D571 |
| TREMproof® 250GC         | Cold, fluid-applied, aliphatic, rapid curing, single-component polyurethane waterproofing membrane for green and damp concrete. Several grades to meet your specifications. | • Tunnels – cut & cover  
• Back-filled walls  
• Vegetated roofs  
• Split-slab  
• Planters  
• Submerged conditions | • ASTM D412  
• ASTM C836  
• ASTM E96  
• ASTM D412  
• ASTM D903 |
| TREMproof® 201/40        | Cold, fluid-applied, bitumen-modified, single-component, moisture-curing polyurethane waterproofing membrane. Several grades to meet your specifications. | • Tunnels – cut & cover  
• Backfilled walls  
• Split-slab  
• Planters  
• Submerged conditions | • ASTM D412  
• ASTM D393  
• ASTM D1970  
• ASTM E154  
• ASTM D1353  
• ASTM D9192  
• ASTM D570  
• ASTM E96  
• ASTM D570  
• ASTM D903  
• ASTM D5385  
• ASTM D570 |
| TREMproof® A800          | Hot-applied, single-component, rubberized asphalt waterproofing membrane consisting of 100% solids. | • Tunnels–cut & cover  
• Roof decks  
• Vegetated roofs  
• Split-slab  
• Planters  
• Submerged conditions  
• Asphalt overlay  
• Under paver systems | • ASTM E96  
• ASTM D92  
• ASTM D5329  
• ASTM D6693  
• ASTM D5385  |
| TREMproof® PUMA          | Cold-applied, waterproofing system that utilizes polyurethane-methacrylate (PUMA) technology, for quick turnaround and cold weather applications. | • Split-slab  
• Vegetated Roofs  
• Flashing  
• Planters  
• Submerged conditions  
• Asphalt overlay  
• Under paver systems | • ASTM D1353  
• ASTM D5147  
• ASTM D4073  
• ASTM C251  
• ASTM D501  
• ASTM D570  
• ASTM C794  
• ASTM D2843  
• ASTM C1305  
• ASTM D3088  
• ASTM D6693 |
| TREMproof® Dual Waterproofing System (DWS) | Dual-membrane waterproofing system comprised of TREMproof TRA sheeting embedded into TREMproof 250GC. This unique waterproofing system is designed to have tenacious adhesion, long-term durability and remarkable chemical stability. | • Backfilled walls  
• Split-slab application  
• Planters  
• Terraces  
• Submerged conditions | • ASTM D412  
• ASTM D393  
• ASTM D1970  
• ASTM E154  
• ASTM D5385  
• ASTM E96  
• ASTM D433  
• ASTM D4988  
• ASTM D570  
• ASTM E96  
• ASTM D570  
• ASTM D903  
• ASTM D5385  
• ASTM D570 |
| TREMproof® Triple Waterproofing System (TWS) | Triple-layer waterproofing assembly consisting of 20 mils of HDPE, expandable granular bentonite and a protective layer of spun-bonded polyester, coated with 60 dry mils of polymer-enhanced, liquid-applied asphalt membrane. | • Beneath slab  
• Blindside walls  
• Water vapor protection  
• Masonry  
• Tunnels  
• Under paver systems  
• Water vapor protection  
• Masonry  
• Tunnels  
• Under paver systems  
• Water vapor protection  
• Masonry  
• Tunnels  
• Under paver systems | • ASTM D412  
• ASTM D393  
• ASTM D1970  
• ASTM E154  
• ASTM D5385  
• ASTM E96  
• ASTM D433  
• ASTM D4988  
• ASTM D570  
• ASTM E96  
• ASTM D570  
• ASTM D903  
• ASTM D5385  
• ASTM D570 |
| Paraseal®              | A sheet system combining the strength and puncture resistance of HDPE with expanding capabilities of bentonite clay. Also available in saltwater version. | • Back-filled walls  
• Water vapor protection  
• Masonry  
• Tunnels  
• Under paver systems  
• Water vapor protection  
• Masonry  
• Tunnels  
• Under paver systems  
• Water vapor protection  
• Masonry  
• Tunnels  
• Under paver systems  
• Water vapor protection  
• Masonry  
• Tunnels  
• Under paver systems  
| Refer to product data sheets. |
| Paraseal® LG           | Paraseal waterproofing membrane with a layer of spun bond polyester to resist damage from abrasive concrete pours or direct installation of shotcrete. | • Blindside walls  
• Beneath slab  
• Water vapor protection  
• Ventilation  
• Submerged conditions  
| Refer to product data sheets. |
| Paraseal® GM           | Multi-layer sheet membrane installed with Para JT Tape to form a superior barrier against water and methane gas. Also available in saltwater version. | • Masonry  
• Tunnels  
• Under paver systems  
| Refer to product data sheets. |
| Paraseal® GM/LG         | Multi-layer sheet membrane with a layer of spun bond polyester to resist damage from abrasive concrete pours or direct installation of shotcrete. Paraseal GM/LG – 20 mil with Para JT Tape or heat-welded Paraseal GM/LG – 60 mil form superior barriers against water and methane gas. | • Blindside walls  
• Water vapor protection  
• Masonry  
• Tunnels  
| Refer to product data sheets. |
| TREMdrain Series       | A series of prefabricated drainage mats and protection boards for vertical and horizontal applications, and a Total-Drain System to replace traditional pipe/aggregate systems. | • Used in conjunction with TREMproof and Paraseal waterproofing membranes. | Refer to product data sheets. |
| Superstop              | Composite waterstop with expandable bentonite for sealing cold joints in concrete. | • Cold joints | • ASTM D300  
• ASTM D71  
• ASTM D751  
• Method A |
| Permaquik® Crystalite Waterproofing | Capillary waterproofing formulation of proprietary blends of chemicals, quartz sand and cement, used to fill small voids and cracks in cement caused by shrinkage, eliminating the migration of water. | • Negative side waterproofing  
| Refer to product data sheets. |
| Flashing               | Quick-cure, liquid-applied system based on polyurethane-methacrylate (PUMA) technology, with tenacious adhesion to concrete and metal. | • Flashing joints  
• Flashing transitions in plane  
• Flashing horizontal-to-vertical transitions  
• Penetrations  
• Flashing joints  
| Refer to product data sheets. |
| Tremco® BauFlex        | A reinforcing flashing consisting of a central strip of stretchy SEBS rubber flanked on either side by an absorbent non-woven felt for easy integration the waterproofing membrane and superior movement capability without compromising the waterproofing. | • Flashing joints  
• Flashing transitions in plane  
<p>| Refer to product data sheets. |</p>
<table>
<thead>
<tr>
<th>Traffic Coating Systems</th>
<th>Description</th>
<th>Basic Uses</th>
<th>Applicable Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Base Coats</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vulken® 350NF R &amp; SL grade available</td>
<td>A single-component, low-odor, low-VOC polyurethane coating that possesses tenacious adhesion primarily to clean and dry concrete, but also to wood and metal. It can be applied beneath any Vulken topcoat or used under tile.</td>
<td>• Pedestrian decks • Vehicular decks • Under tile</td>
<td>• ASTM D957 • ASTM D2240 • ASTM D4541 • ASTM D1353 • ASTM D412 • CSA S413-14</td>
</tr>
<tr>
<td>Vulken® 350</td>
<td>A single-component urethane membrane that bonds firmly to clean, dry concrete and metal. It can be applied under any Vulken top coat or used under tile.</td>
<td>• Pedestrian decks • Vehicular decks • Under tile</td>
<td>• ASTM D1353 • ASTM D412 • CSA S413-14 • ASTM D2240 • ASTM D4541</td>
</tr>
<tr>
<td>Vulken® 341NF</td>
<td>A low-odor, VOC-compliant, water-cured, rapid-setting polyurethane basecoat that possesses tenacious adhesion primarily to clean and dry concrete, but also to wood and metal. Can be applied at various thicknesses.</td>
<td>• Sloping/patching/repair of concrete • Pedestrian decks • Vehicular decks</td>
<td>• ASTM D412 • ASTM D562 • ASTM C836 • CSA S413-14 • ASTM D4541</td>
</tr>
<tr>
<td><strong>Intermediate Coats</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vulken® 344</td>
<td>Aliphatic, polyurethane, elastomeric coating that is applied after the base coat has cured.</td>
<td>• Vehicular decks</td>
<td>• ASTM D567 • ASTM D2240 • ASTM D957 • ASTM D412 • ASTM D4060 • CSA S413-14</td>
</tr>
<tr>
<td>Vulken® 950NF</td>
<td>High-performance, two-part, low-odor/low-VOC intermediate coat for vehicular (heavy-duty) applications.</td>
<td>• Applications where low odor &amp; extreme durability are concerns • Vehicular decks • Mechanical room</td>
<td>• ASTM D957 • ASTM D2240 • ASTM D4060 • ASTM D412 • CSA S413-14 • ASTM D1353 • ASTM D412</td>
</tr>
<tr>
<td>Vulken® Epoxy WC</td>
<td>Two-part, high solids, low odor, VOC compliant, epoxy wear coat.</td>
<td>• Applications where low odor &amp; extreme durability are concerns • Vehicular decks</td>
<td>• ASTM D957 • ASTM D2240 • ASTM D4060 • ASTM D412 • CSA S413-14 • ASTM D1353 • ASTM D412</td>
</tr>
<tr>
<td><strong>Top Coats</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vulken® 950NF</td>
<td>High-performance, two-part, low-odor/low-VOC topcoat for applications without UV exposure.</td>
<td>• Applications where low odor &amp; extreme durability are concerns • Vehicular decks • Mechanical room</td>
<td>• ASTM D957 • ASTM D2240 • ASTM D4060 • CSA S413-14 • ASTM D1353 • ASTM D412</td>
</tr>
<tr>
<td>Vulken® 951NF</td>
<td>High-performance, aliphatic, low-odor/low-VOC, UV-resistant topcoat for pedestrian (medium duty) and vehicular (heavy duty) applications.</td>
<td>• Applications where low odor &amp; extreme durability are concerns • Vehicular decks • Mechanical room</td>
<td>• ASTM D957 • ASTM D2240 • ASTM D4060 • CSA S413-14 • ASTM D1353 • ASTM D412 • ASTM D957</td>
</tr>
<tr>
<td>Vulken® 344</td>
<td>Aliphatic, polyurethane, elastomeric coating that is applied after the base coat has cured.</td>
<td>• Vehicular decks</td>
<td>• ASTM D957 • ASTM D2240 • ASTM D4060 • ASTM D412 • CSA S413-14 • ASTM D1353 • ASTM D412</td>
</tr>
<tr>
<td>Vulken® 351/351NF</td>
<td>Slip-resistant pedestrian topcoat to be applied after the basecoat has cured, affording excellent abrasion resistance and outstanding elongation and recovery to expand and contract with substrates.</td>
<td>• Pedestrian decks • Athletic surface • Roof terrace</td>
<td>• ASTM D957 • CSA S413-14 • ASTM D4541 • ASTM D412 • ASTM D1353 • ASTM D4060</td>
</tr>
<tr>
<td><strong>Specialty Coatings</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vulken® 001</td>
<td>Heavy-duty, aluminiized, one-part, polyurethane coating affording high tensile and tear strengths and elongation.</td>
<td>• Horizontal and vertical applications • Outdoor conditions • Gisterns/Cooling towers</td>
<td>• ASTM D412 • ASTM C836 • ASTM D2240 • ASTM C794 • CSA S413-14 • ASTM D4541 • ASTM D1353</td>
</tr>
<tr>
<td><strong>Pedestrian Systems</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vulken® 350NF/351NF</td>
<td>An attractive composite pedestrian deck coating waterproofing system comprised of a tough curing liquid polyurethane.</td>
<td>• Balconies • Mechanical room • Roof terraces</td>
<td>• ASTM D4541 • ASTM D957 • ASTM D412 • CSA S413-14 • ASTM D4060 • ASTM D1353</td>
</tr>
<tr>
<td>Vulken® 350NF/950NF or 951NF</td>
<td>Neighbor-friendly, low odor, VOC-compliant waterproofing system that cures to form an attractive, seamless elastomeric membrane system.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vulken® 350NF/950NF or 951NF</td>
<td>Nearly 100% solids, VOC-compliant system that is extremely durable and can be installed in a fast-track method.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vulken® EWS Pedestrian</td>
<td>Extremely durable, fast curing system that can be put into use one hour after application.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Vehicular Systems</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vulken® 350NF/344</td>
<td>A modified polyurethane traffic deck coating system designed to have tenacious adhesion, extreme impact- and abrasion-resistance along with remarkable chemical stability.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vulken® 350NF/950NF or 951NF</td>
<td>Neighbor-friendly, VOC-compliant system that is extremely durable and is ideal for applications requiring a low odor system.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vulken® 350NF/Epoxy WC/344</td>
<td>A polyurethane coating system featuring an epoxy wear course that provides enhanced durability compared to standard urethane-only systems.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vulken® 350NF/950NF/951NF</td>
<td>Neighbor-friendly, nearly 100% solids, VOC-compliant system that is extremely durable and can be installed in a fast-track method.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vulken® EWS Vehicular</td>
<td>Extremely durable, fast curing system that can be put into use one hour after application.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Heavy Duty System</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vulken® EWS Heavy Duty</td>
<td>Extremely durable, fast curing system that can be put into use one hour after application.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Expansion Joints

Industry-leading expansion joint systems featuring monolithic liquid polyurethane-methacrylate (PUMA) and Willseal® pre-compressed, silicone-impregnated foams provide a strong bond to surrounding substrates, while providing superior durability and excellent movement capabilities.

<table>
<thead>
<tr>
<th>Joint Type</th>
<th>Description</th>
<th>Basic Uses</th>
<th>Applicable Standards</th>
</tr>
</thead>
</table>
| **PUMA Expansion Joints** | Monolithic, liquid polyurethane-methacrylate (PUMA) expansion joint system with superior durability and excellent movement capabilities | • New construction expansion joints  
• Expansion joint restoration | • ASTM C1305  
• ASTM D1970  
• ASTM D5682 |

### Pre-Compressed Foam Joints

<table>
<thead>
<tr>
<th>Willseal®</th>
<th>Description</th>
<th>Basic Uses</th>
<th>Applicable Standards</th>
</tr>
</thead>
</table>
| **250** | Pre-compressed, self-expanding open micro-cell polyurethane foam impregnated with a self-extinguishing hydrophilic acrylic emulsion with a factory-applied traffic rated silicone sealant. Designed to provide a watertight seal in structures with shear and rapid movement. Up to 100% (+50%) movement capability.  
Monolithic construction. | Horizontal Expansion Joints:  
• Parking Garages  
• Plaza Decks  
• Airport Runways & Terminals | • UL 263 (ASTM E119)  
• UL 2979 (ASTM E119)  
• ASTM E1399 |
| **250R** | Pre-compressed, self-expanding open micro-cell polyurethane foam impregnated with a self-extinguishing hydrophilic acrylic emulsion with patent pending other public buildings with a factory-applied traffic rated sealant. The reinforcing bars stiffen the bellows, providing increased stability to the expansion joint. Up to 100% (+50%) movement capability.  
Monolithic construction. | Horizontal Expansion Joints:  
• Parking Garages  
• Plaza Decks  
• Mail Entrances  
• Pedestrian and vehicular bridges | • UL 263 (ASTM E119)  
• UL 2979 (ASTM E119)  
• ASTM E1399 |
| **600** | Pre-compressed, self-expanding foam joint seal, engineered to perform as a highly flexible, weather-tight, primary seal in vertical exterior applications. The high-density polyurethane foam is impregnated with a modified flame retardant, hydrophobic, UV stable acrylic resin and treated with a pressure-sensitive adhesive on one side for ease of installation. Resistant to driving rain up to 600 Pa. | Vertical Expansion Joints:  
• Expansion joints between tilt-up panels in commercial structures  
• Joints in pre-cast concrete, masonry & brick façades  
• Metal roofing panels  
• Log homes  
• Exterior Insulation and Finish Systems (EIFS)  
• Recreational vehicles | • UL 263 (ASTM E119)  
• UL 2979 (ASTM E119)  
• ASTM E1399 |
| **600S** | Pre-compressed, self-expanding foam joint seal, engineered to perform as a highly flexible, secondary seal in vertical exterior applications. Willseal® 600S is specifically designed to provide the ideal foundation for a large variety of wet sealants, such as silicone, polyurethane, polysulfide, and acrylic. | Vertical Expansion Joints:  
• Control, isolation & retrofit joints  
• Construction joints between a wet seal  
• Joints in pre-cast concrete, masonry, brick and facades  
• Roofing and insulated metal panels  
• Exterior insulation finish systems (EIFS)  
• Window and flashing applications  
• Interior vapor, dust, acoustical and air control | • UL 263 (ASTM E119)  
• UL 2979 (ASTM E119)  
• ASTM E1399 |
| **FR-V** | Fire-rated, pre-compressed, watertight, UV stable foam, with an integral smoke barrier within the fire-retardant impregnated foam body, sound-attenuating expansion joint with a pre-cured, factory-applied sealant applied to the face. Designed for vertical fire-rated expansion joints. Up to 100% (+50%) movement capability.  
Monolithic construction. | Vertical fire-rated expansion joint systems  
• Expansion, control, and isolation joints  
• Retrofit & seismic joints | • UL 263 (ASTM E119)  
• UL 2979 (ASTM E119)  
• ASTM E1399 |
| **FR SAF-V** | Fire-rated, pre-compressed, watertight, UV stable foam, with an integral smoke barrier within the fire-retardant impregnated foam body, sound-attenuating expansion joint with a pre-cured, factory-applied sealant applied to the face. Up to 100% (+50%) movement capability.  
Monolithic construction. | Horizontal fire-rated expansion joint systems for vehicular or pedestrian traffic  
• Parking Garages  
• Plaza Decks  
• Ceilings and partitions | • UL 263 (ASTM E119)  
• UL 2979 (ASTM E119)  
• ASTM E1399 |
| **Seismic** | Pre-compressed, self-expanding open micro-cell polyurethane foam impregnated with a hydrophobic, acrylic polymer and coated with a factory-applied silicone sealant. It is designed to provide a watertight, dust-proof, noise-reducing, thermally insulating, UV stable primary seal that accommodates rapid rates of joint movement. Up to 100% (+50%) movement capability.  
Monolithic construction. | Vertical fire-rated pick-resistant expansion joints found in schools, detention facilities, hospitals, prisons, and other government facilities | • UL 263 (ASTM E119)  
• UL 2979 (ASTM E119)  
• ASTM E1399 |
| **Seismic II** | Pre-compressed, self-expanding open micro-cell polyurethane foam impregnated with a hydrophobic, acrylic polymer and coated with a factory-applied traffic rated silicone sealant. It is designed to provide a watertight, dust-proof, noise-reducing, thermally insulating, and UV stable primary seal that accommodates rapid rates of joint movement. Up to 100% (+50%) movement capability.  
Monolithic construction. | Horizontal Expansion Joints:  
• Retrofit & Seismic joints  
• Horizontal movement joints  
• Parking Garages  
• Precast concrete construction | • UL 263 (ASTM E119)  
• UL 2979 (ASTM E119)  
• ASTM E1399 |
| **Seismic SAF V** | Pre-compressed, self-expanding open micro-cell polyurethane foam impregnated with a hydrophobic, acrylic polymer and coated with a factory-applied pick resistant sealant. It is designed to provide a watertight, dust-proof, noise-reducing, thermally insulating, and UV stable primary seal that accommodates rapid rates of joint movement. Up to 100% (+50%) movement capability.  
Monolithic construction. | Vertical pick-resistant expansion joints found in schools, detention facilities, hospitals, prisons, and other government facilities | • UL 263 (ASTM E119)  
• UL 2979 (ASTM E119)  
• ASTM E1399 |

### Closed-Cell Foam Joints

<table>
<thead>
<tr>
<th>Willseal®</th>
<th>Description</th>
<th>Basic Uses</th>
<th>Applicable Standards</th>
</tr>
</thead>
</table>
| **Careseal** | Compressible type joint sealant for both static vertical, and horizontal joints on a vertical plane comprised of a fire resistant acrylic impregnated polyurethane foam with factory coated silicone sides. Careseal® Seal is color matched to blend in with the surrounding and for a better aesthetically pleasing appearance. Designed for interior sound, dust and draft control. Not intended for movement joints.  
Monolithic construction. | • Window-to-wall  
• Movable or permanent partitions  
• Head of wall  
• Curtain wall  
• Partition-to-wall | • ASTM E90  
• ASTM E84-12B Class A |
| **Color Careseal V** | Lightweight, preformed closed-cell ethylene vinyl acetate (EVA) copolymer foam with a pre-cured, factory-applied pick resistant sealant. It is designed to provide a watertight, dust-proof, lightweight, noise-reducing, thermally insulating and UV stable primary seal that does not require invasive anchoring for installation. Up to 50% (+25%) movement capability.  
Monolithic construction. | • Control joints  
• Bridge expansion joints  
• Below grade applications  
• Primary horizontal or vertical expansion joints  
• Parking garage expansion joints  
• Highway longitudinal and transverse joints | • UL 263 (ASTM E119)  
• UL 2979 (ASTM E119)  
• ASTM E1399 |
| **Color Careseal H** | Lightweight, preformed closed-cell ethylene vinyl acetate (EVA) copolymer foam with a pre-cured, factory-applied pick resistant sealant. It is designed to provide a watertight, dust-proof, lightweight, noise-reducing, thermally insulating and UV stable primary seal that does not require invasive anchoring for installation. Up to 50% (+25%) movement capability.  
Monolithic construction. | Horizontal Expansion Joints:  
• Below grade applications  
• Seismic, large & retrofit joints  
• Highway longitudinal and transverse joints  
• Bridge & parking expansion joints  
• Larger joints requiring an architectural finish | • UL 263 (ASTM E119)  
• UL 2979 (ASTM E119)  
• ASTM E1399 |
| **Color Careseal SAF V** | Lightweight, preformed closed-cell ethylene vinyl acetate (EVA) copolymer foam with a pre-cured, factory-applied pick resistant sealant. It is designed to provide a watertight, dust-proof, lightweight, noise-reducing, thermally insulating and UV stable primary seal for areas that can be easily damaged or vandalized in institutional or other public buildings.  
Monolithic construction. | Vertical expansion joints:  
• Primary construction joints  
• Retrofit & seismic joints  
• Pre-cast concrete walls, tilt-up walls  
• Expansion, control and isolation joints  
• Exterior panel systems - Masonry, Granite, Metal, EIFS, Curtain Walls  
• Larger joints requiring a resilient, tamper-resistant seal | • UL 263 (ASTM E119)  
• UL 2979 (ASTM E119)  
• ASTM E1399 |

* Willseal is a part of Tremco Construction Products Group.
**Adhesives**

<table>
<thead>
<tr>
<th>TRENMG®</th>
<th>One-component, non-sag, elastic adhesive based on hybrid polymers. In indoor/outdoor on a variety of uses, including (but not limited to) drainage board in backfilled applications, air barrier applications, and insulation to air barriers and below-grade membranes.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>TRENMGL®</th>
<th>Use Vulkem Catalyst 116 for quick cure. Use water for quick cure (Please contact Technical Services at 866.209.2404 for more information.) Refer to Glazing section for Proglaze II and Proglaze SSG. **Product not for use in the United States.</th>
</tr>
</thead>
</table>
### Firestopping

<table>
<thead>
<tr>
<th>Firestopping</th>
<th>Description</th>
<th>Basic Uses</th>
<th>Applicable Standards</th>
</tr>
</thead>
</table>
| TREMstop IA+ | High-performance water-based intumescent acrylic sealant for use in firestopping general applications for commercial construction. | • Plumbing  
• Electrical  
• Mechanical  
• Telecommunications | • ASTM E814  
• UL1479  
• UL 2079  
• ASTM E1966  
• CAN/ULC S115 |
| TREMstop Acrylic SP grade available | Flexible acrylic sealant for use in both through-penetrations and fire-rated joints and gaps. | • Fire-rated & smoke-rated joints  
• Smoke partition joints & penetrations  
• Plumbing  
• Electrical  
• Mechanical  
• Telecommunications | • UL1479  
• ASTM E814  
• UL723  
• ASTM E84  
• E2307*  
• CAN/ULC-S101M  
• UL2079  
• ASTM E1966  
• ASTM E1399  
• CAN/ULC S115  
• ASTM E90  
• UL 263 (ASTM E119) |
| TREMstop Silicone EWS SL grade available | Medium modulus, neutral cure, one-part silicone sealant for use in both through-penetrations and fire-rated joints. | • Fire-rated & smoke-rated joints  
• Smoke partition joints & penetrations  
• Plumbing  
• Electrical  
• Mechanical  
• Telecommunication | • UL1479  
• ASTM E814  
• UL723  
• ASTM E84  
• E2307**  
• CAN/ULC-S101  
• UL1479 |
| TREMstop Smoke & Sound SP grade available | High-performance acrylic sealant formulated to provide a pliable seal with minimal shrinkage that affords code compliance when used on smoke-rated partitions. | • Smoke partition joints & penetrations | • ASTM E84  
• ASTM C834  
• ASTM E90 |
| TREMstop SuperStrip | Pre-cut intumescent wrap strip for combustible penetrations. | • Plumbing  
• Mechanical | • ASTM E814  
• CAN/ULC S115  
• UL1479 |
| TREMstop MP | Moldable, intumescent putty available in easy-to-use pad forms for electrical outlet boxes. | • Electrical | • UL283  
• CAN/ULC S101 |

SP = Spray  SL = Self-Leveling  * Spray Grade Only  ** Gun Grade Only

---

### PUMA Technology

Tremco systems with polyurethane-methacrylate (PUMA) technology feature extreme durability, fast cure independent of temperature, crack-bridging, superior adhesion and abrasion resistance.

<table>
<thead>
<tr>
<th>PUMA Systems</th>
<th>Description</th>
<th>Basic Uses</th>
<th>Applicable Standards</th>
</tr>
</thead>
</table>
| Vulkem EWS Pedestrian | Extremely durable, fast curing system that can be put into use one hour after application. | • Walkways  
• Mechanical rooms  
• Balconies | • ASTM C967  
• ASTM D2240  
• UL 790  
• ASTM C1305  
• ASTM D5147 |
| Vulkem EWS Vehicular | Extremely durable, fast curing system that can be put into use one hour after application. | • Ramps  
• Helical turns  
• Ticket spitters  
• Drive lanes | • ASTM C967  
• ASTM D2240  
• UL 790  
• ASTM C1305  
• ASTM D5147 |
| Vulkem EWS Heavy Duty | Extremely durable, fast curing system that can be put into use one hour after application. | • Loading docks  
• Heavy equipment facilities | • ASTM C967  
• ASTM D2240  
• UL 790  
• ASTM C1305  
• ASTM D5147 |
| Vulkem EWS Specialty | Extremely durable, fast curing system that can be put into use one hour after application. | • Helipads  
• Under tile  
• Water features  
• Decorative quartz  
• Pool decks | • ASTM C967  
• ASTM D2240  
• UL 790  
• ASTM C1305  
• ASTM D5147 |
| TREMproof PUMA Waterproofing | Cold-applied waterproofing system that utilizes polyurethane-methacrylate (PUMA) technology for quick turnaround and cold weather applications. | • Split-slab  
• Plants  
• Asphalt overlay  
• Vegetated roofs  
• Flashing | • ASTM D1353  
• ASTM C1305 |
| Tremco PUMA EJS (Expansion Joint System) | Monolithic, liquid polyurethane-methacrylate (PUMA) expansion joint system with superior durability and excellent movement capabilities | • New construction expansion joints  
• Expansion joint restoration | • ASTM C1305  
• ASTM D1970  
• ASTM D5802  
• ASTM D5147 |
## Glazing

A complete line of glazing sealants and compatible gaskets, tapes, spacers and setting blocks for use in commercial curtain wall and window applications, allowing the design of integrated systems with assurance of adhesion, weatherability and durability.

<table>
<thead>
<tr>
<th>Glazing</th>
<th>Description</th>
<th>Basic Uses</th>
<th>Applicable Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sealants</strong></td>
<td></td>
<td></td>
<td>---------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Proglaze&lt;sup&gt;a&lt;/sup&gt;</td>
<td>Single-component, moisture-cure, acetoxyl silicone sealant for glazing.</td>
<td>• In-plant glazing applications such as cap bead, toe bead, heel beads and metal-to-metal joinery.</td>
<td>• ASTM C920 Type S, Grade NS, Use NT, G, A and O &lt;br&gt; • CAN/CGSB 19.13-M87, MG-2-29-A-L &lt;br&gt; • TT-S-00230C (COM-NBS) Class A &lt;br&gt; • TT-S-001543A (COM-NBS) Class A</td>
</tr>
<tr>
<td>Proglaze&lt;sup&gt;a&lt;/sup&gt; II</td>
<td>Multi-component, neutral-cure, silicone sealant for structural glazing.</td>
<td></td>
<td>• ASTM C920 Type M, Grade NS, Class 25, Use NT, G and A &lt;br&gt; • TT-S-00227E Class A, Type II</td>
</tr>
<tr>
<td>Proglaze&lt;sup&gt;a&lt;/sup&gt; 550</td>
<td>Single-component, neutral-cure, silicone sealant for structural glazing.</td>
<td>• Structural glazing (tensile and weather heat), hurricane/impact and blast mitigation.</td>
<td>• ASTM C920 Type S, Grade NS, Use NT, G, A and O &lt;br&gt; • CAN/CGSB 19.13-M87 &lt;br&gt; • TT-S-00230C (COM-NBS) Class A, Type II &lt;br&gt; • TT-S-001143A (COM-NBS) Class A</td>
</tr>
<tr>
<td>Spectrum&lt;sup&gt;®&lt;/sup&gt; 1</td>
<td>Single-component, moisture-cure silicone sealant.</td>
<td>• EIFS&lt;br&gt; • Curtain walls&lt;br&gt; • Window perimeters&lt;br&gt; • With Spectrum Simple Seal&lt;br&gt; • With Exolair air barriers&lt;br&gt; • Bonds well to the HDPE faces of self-adhered membranes</td>
<td>• Aluminum&lt;br&gt; • Metal panels&lt;br&gt; • Cap beads&lt;br&gt; • ASTM C920 Type S, Grade NS, Class 100/50, Use NT, M, G, A and O &lt;br&gt; • ASTM C1248 &lt;br&gt; • ASTM E84 &lt;br&gt; • CAN/CGSB 19.13-M87, MCG-2-40-B-N &lt;br&gt; • TT-S-001543A (COM-NBS) Class A &lt;br&gt; • TT-S-00230C (COM-NBS) Class A, Type II &lt;br&gt; • EMMA Test Method 300.01 ASTM C1382</td>
</tr>
<tr>
<td>Spectrum&lt;sup&gt;®&lt;/sup&gt; 2</td>
<td>Single-component, neutral-cure silicone sealant for 2-sided structural glazing.</td>
<td>• Structural glazing (tensile and weather heat), window perimeter caulking and general glazing applications such as toe, heel and cap beads.</td>
<td>• ASTM C920 Type S, Grade NS Class 50, Use NT, M, G, A and O &lt;br&gt; • ASTM C1248 &lt;br&gt; • GGEB 19.13-M87 &lt;br&gt; • SWRI Validated</td>
</tr>
<tr>
<td>Spectrum&lt;sup&gt;®&lt;/sup&gt; Simple Seal</td>
<td>Spectrum Simple Seal is a ultra-low modulus, performed silicone extrusion specifically designed to have high elongation properties. Simple Seal is typically bonded with Spectrum 1 Silicone Sealant to a wide range of substrates to provide a watertight seal.</td>
<td>• Tremco Spectrum Simple Seal is designed for both new construction and restoration work involving window perimeter, EIFS joints, parapet walls, skylights, aluminum window seals, transition seals, curtail walls, joints, sheet metal roofs, and other lap joints. &lt;br&gt; • SWRI Validated</td>
<td></td>
</tr>
<tr>
<td>Tremtek&lt;sup&gt;®&lt;/sup&gt; 600</td>
<td>Single-component, neutral-cure silicone sealant for glazing.</td>
<td>• Back bedding seal with excellent adhesion to aluminum, stainless steel, metals, glass, plastics, rigid PVCs, wood and painted surfaces.</td>
<td>• ASTM C920 Type S, Grade NS, Use NT, G, A and O &lt;br&gt; • ASTM C1248 &lt;br&gt; • GGEB 19.13-M87 &lt;br&gt; • TT-S-00230C (COM-NBS) Class A &lt;br&gt; • TT-S-001543A (COM-NBS) Class A &lt;br&gt; • AAMA 800-92 &lt;br&gt; • CAN/CGSB 19.13-M87</td>
</tr>
<tr>
<td><strong>Tapes</strong></td>
<td></td>
<td></td>
<td>---------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>440 Tape</td>
<td>100% solid polyisobutylene cross-linked butyl, preformed sealant.</td>
<td>• Non-compression glazing&lt;br&gt; • With meta-to-metal lap seals</td>
<td>• AAMA 804.3/807.3 &lt;br&gt; • ASTM D2240 &lt;br&gt; • ASTM D1667 &lt;br&gt; • TT-S-00230C (COM-NBS) Class A</td>
</tr>
<tr>
<td>PolyShim&lt;sup&gt;®&lt;/sup&gt; II</td>
<td>100% solids, cross-linked butyl preformed tape with a continuous integral EPDM shim.</td>
<td>• Compression glazing systems&lt;br&gt; • Spacer for structural silicones</td>
<td>• ASTM D1667 &lt;br&gt; • ASTM D2240 &lt;br&gt; • ASTM D1667 &lt;br&gt; • ASTM D2240</td>
</tr>
<tr>
<td>S61-908 Series</td>
<td>Open cell, high-density polyurethane foam tapes with a micro-cellular structure with PSA on one or both sides.</td>
<td>• Compatible spacer for Structural Glazing Systems</td>
<td>• ASTM D1667 &lt;br&gt; • ASTM D2240 &lt;br&gt; • ASTM D1667 &lt;br&gt; • ASTM D2240</td>
</tr>
<tr>
<td><strong>Extrusions</strong></td>
<td></td>
<td></td>
<td>---------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Arrow-Shim</td>
<td>Precision extruded EPDM drive-in spacer-shims.</td>
<td>• Controls proper spacing&lt;br&gt; • Recess for cap bead&lt;br&gt; • Uniform cushion for glass</td>
<td></td>
</tr>
<tr>
<td>Poly-Wej</td>
<td>Extruded in EPDM compound for use in compression glazing systems.</td>
<td>• Compression wedge for PolyShim Tape&lt;br&gt; • Compression wedge for dense/dense systems</td>
<td></td>
</tr>
<tr>
<td>Glazing Spline</td>
<td>An extruded EPDM compound for use in compression glazing systems.</td>
<td>• Compression wedge for PolyShim Tapes and compatible gusseted sealants&lt;br&gt; • Compression spline for dense/dense systems</td>
<td></td>
</tr>
<tr>
<td>Vision Strip&lt;sup&gt;®&lt;/sup&gt;</td>
<td>A co-extruded composite made up of EPDM rubber at the sightline and polyisobutylene, preformed butyl sealant.</td>
<td>• Compression glazing systems&lt;br&gt; • Control proper glass spacing&lt;br&gt; • Positive wet seal between glass and metal</td>
<td></td>
</tr>
<tr>
<td>Cellular</td>
<td>Closed cell EPDM extruded rubber.</td>
<td>• Pre-set compression gasket&lt;br&gt; • Weatherstripping&lt;br&gt; • Operating vent seals</td>
<td></td>
</tr>
<tr>
<td>Dense EPDM</td>
<td>40, 50, 60, 70 and 90 durometer Shore A extruded EPDM.</td>
<td>• Compression wedge gaskets&lt;br&gt; • Weatherstripping&lt;br&gt; • Setting and edge blocks</td>
<td></td>
</tr>
<tr>
<td>Dense Silicone</td>
<td>40, 60, 70 and 80 durometer Shore A extruded silicone rubber.</td>
<td>• Compression wedge gaskets&lt;br&gt; • Structural glazing back-up spacers&lt;br&gt; • Setting and edge blocks</td>
<td></td>
</tr>
<tr>
<td>Spectrum&lt;sup&gt;®&lt;/sup&gt; Restoration Overlay</td>
<td>60 and 70 durometer Shore A extruded silicone rubber used in restoration applications.</td>
<td>Custom-designed to restore aging and/or compromised glazing systems including: Sylights&lt;br&gt; Zipper wall / lockstrip systems&lt;br&gt; Pressure bar systems</td>
<td></td>
</tr>
<tr>
<td>Dense SCR-900</td>
<td>60, 70 and 80 durometer Shore A extruded Silicona Compatible Rubber.</td>
<td>• Compression wedge gaskets&lt;br&gt; • Pre-set dense spacers&lt;br&gt; • Weatherstripping</td>
<td></td>
</tr>
</tbody>
</table>

Most compounds available comply with: ASTM C920, Option I and II; ASTM C864, Option I and Option II; ASTM C1115, Type C
Transitions

Innovative, pre-engineered, airtight and watertight systems
designed to provide continuity at critical transitions from window
or structural framing to adjacent air and vapor barrier systems.

<table>
<thead>
<tr>
<th>Transition</th>
<th>Description</th>
<th>Basic Uses</th>
<th>Applicable Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineered Transition Assembly</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proglaze® ETA</td>
<td>A turnkey solution comprised of pre-engineered, finished aluminum and silicone materials assembled and mechanically attached to simplify installation of tie-ins or transitions from air barriers to window or curtain wall systems. An A continuous, compatible and durable connection from the window or curtain wall system to wall assemblies. • Expansion Joints • Seismic Joints • Used in conjunction with the ExoAir membranes</td>
<td></td>
<td>The system as a whole was tested according to the following Test Methods: • ASTM E288-04 • ASTM E330-02 • AAMA 501.1 • ASTM E331-00 • ASTM E547-00 • AAMA 501.4 • ASTM E84 • ASTM E96 • NFPA 285</td>
</tr>
<tr>
<td>Polyurethane Foams</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ExoAir® Flex</td>
<td>Single-component, moisture-cure, gun-grade polyurethane flexible foam that performs as a thermal barrier with an industry leading movement range of +/-15%</td>
<td>• Best suited as a thermal and sound barrier to be used in the perimeters around windows and doors. • Flexible composition is well-suited for applications that incur movement.</td>
<td>• AAMA 812 • ASTM D2842</td>
</tr>
<tr>
<td>ExoAir® LIF</td>
<td>Single-component, moisture-curing, gun-grade polyurethane foam</td>
<td>• Used to fill gaps surrounding penetrations prior to air barrier installation. • Best suited around window and door frame joints but can also be used as an effective joint filler.</td>
<td>• ASTM E84</td>
</tr>
<tr>
<td>Pre-Formed Transition Extrusions</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dymonic® Simple Seal</td>
<td>Medium-modulus, preformed polyurethane extrusion specifically designed to bridge joints under elastomeric wall coatings. Dymonic Simple Seal is typically bonded with Dymonic 100 polyurethane sealant to a wide range of substances to provide a watertight seal.</td>
<td>• Tremco Dymonic Simple Seal is designed for both new construction and restoration work involving expansion joints, window/door perimeters, EIFS joints, parapet walls, skylights, transition seals, curtain wall joints, sheet metal roof joints and other lap joints that will be coated with an elastomeric coating.</td>
<td>• ASTM D2240 • ASTM D412</td>
</tr>
<tr>
<td>Spectrem® Simple Seal</td>
<td>Spectrem Simple Seal is a ultra-low modulus, performed silicone extrusion specifically designed to have high elongation properties. Simple Seal is typically boded with Spectrem 1 Silicone Sealant to a wide range of substrates to provide a watertight seal.</td>
<td>• Tremco Spectrem Simple Seal is designed for both new construction and restoration work involving window perimeters, EIFS joints, parapet walls, skylights, aluminum window seals, transition seals, curtain walls joints, sheet metal roofs, &amp; other joints.</td>
<td>• SWRI Validated</td>
</tr>
</tbody>
</table>

Architectural Wall Coatings

Architectural wall coatings to restore aesthetic appeal and the extend the life of a building’s exterior concrete and masonry surfaces.

<table>
<thead>
<tr>
<th>Wall Coating Systems</th>
<th>Description</th>
<th>Basic Uses</th>
<th>Applicable Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>TREMGard HB</td>
<td>TREMGard HB is a high-build, fiber reinforced, water-based, acrylic wall coating formulated to provide a tough, durable, flexible, and breathable film protection for concrete and masonry surfaces. TREMGard HB can be applied in a single coat up to 32 wet mils and can be used to bridge cracks.</td>
<td>• Exterior and interior above-grade substrates, concrete, cast-in-place or pre-cast, concrete masonry units (CMU), previously painted masonry, brick, stone, exterior insulation finish systems (EIFS), stucco, can be used on metal and PVC with TREMPreme Non-Porous Primer</td>
<td>• ASTM D1475 • ASTM D1644 • ASTM D4798 • ASTM D624 • ASTM D522 • ASTM C794/C903/D903</td>
</tr>
</tbody>
</table>

Willseal

| 34 Executive Drive | 800.274.2813 |
| Hudson, NH 03051 | CAN: 800.363.3213 |
| willseal.com |
See how Tremco and Dryvit — now both part of the Tremco Construction Products Group — teamed up to help this building's owner maximize energy efficiency, and completely modernize the aesthetic at the same time. [https://youtu.be/atHiErInQWk](https://youtu.be/atHiErInQWk)

500 Pacific Ave. | Bremerton, Washington
Tremco Traffic Coatings | Tremco Sealants
Dryvit Panelization Systems

Tremco Commercial Sealants & Waterproofing | 3735 Green Road | Beachwood, OH 44122 | US: 800.852.9068 | CAN: 800.363.3213 | tremcosealants.com
Willseal | 34 Executive Drive | Hudson, NH 03051 | 800.274.2813 | CAN: 800.363.3213 | willseal.com

Tremco Construction Products Group (CPG) brings together Tremco Incorporated’s Commercial Sealants & Waterproofing and Roofing & Building Maintenance operating divisions; Dryvit Systems, Inc.; Nudura Inc.; Willseal; Weatherproofing Technologies, Inc. and Weatherproofing Technologies Canada, Inc.

Oscorp®, OpenSeal®, Exode®, Almost 600®, Personal®, PolyGlo®, Polygran®, Spectrum®, Tremco®, Tremflex®, TREMStop®, Tremco®, TREMGrip®, Vulkem® and Vision Strip® are registered trademarks of Tremco Incorporated. Permaquik® is a registered trademark of RPM Canada. Dryvit® is a registered trademark of Dryvit Systems, Inc. Nudura® is a registered trademark of Nudura Inc. Willseal is a registered trademark of Schul International Co., LLC. Use of the ® symbol indicates registration with the US Patent & Trademark Office and the Canadian Intellectual Property Office.