PRODUCT DATA SHEET

SERIES ES ELASTOMERIC SEALANT

APPLICATIONS
SpecSeal® Elastomeric Sealant is designed primarily for the protection of construction joints.

PHYSICAL PROPERTIES

Table A:

<table>
<thead>
<tr>
<th>PRODUCT NAME</th>
<th>Series ES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Pale Blue or Red</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild Latex</td>
</tr>
<tr>
<td>Density</td>
<td>10 Lb/Gal (1.19 kg/L)</td>
</tr>
<tr>
<td>Solids</td>
<td>66%</td>
</tr>
<tr>
<td>pH</td>
<td>7.5</td>
</tr>
<tr>
<td>Solids Content By Weight</td>
<td>81%</td>
</tr>
<tr>
<td>Solids Content By Volume</td>
<td>71.5%</td>
</tr>
<tr>
<td>In-Service Temp.</td>
<td>≤185°F (85°C)</td>
</tr>
<tr>
<td>Storage Temp.</td>
<td>40°F (4°C) - 95°F (35°C)</td>
</tr>
<tr>
<td>Flame Spread</td>
<td>5*</td>
</tr>
<tr>
<td>Smoke Development</td>
<td>5*</td>
</tr>
<tr>
<td>Movement</td>
<td>≤25%*</td>
</tr>
<tr>
<td>Solvent Content</td>
<td>None</td>
</tr>
<tr>
<td>Drying Time</td>
<td>Tack Free 2 Hours4</td>
</tr>
<tr>
<td></td>
<td>Dry through 5 to 7 days4</td>
</tr>
<tr>
<td>STC Rating</td>
<td>62</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>2 yrs</td>
</tr>
<tr>
<td>VOC</td>
<td>43 g/L</td>
</tr>
</tbody>
</table>

* Tested to ASTM E84 (UL723) at 14% surface
**500 Cycles per UL2079, AC30 (ICBO) and ASTM E1399
**Dependent on temperature and humidity

FEATURES

• Water-Based for easy installation and cleanup.
• Non-halogenated.
• Thixotropic for high-build application.
• Auto bonding.
• Safe... No solvents! No asbestos!
• Elastomeric!
• Water-Resistant!
• UL Classified.
• Acoustical sealant
• Paintable

PERFORMANCE

When applied to a wet film thickness of 1/4" (6.3 mm) to 1/2" (12.5 mm) over appropriate backing materials, SpecSeal® Elastomeric Sealant has been successfully tested in one, two, three and four hour joints when tested in accordance with UL2079 (ASTM E1966) and CAN/ULC S115. All tested systems have been cycled 500 times at total movement up to ±25%. Consult factory for individual system designs and application requirements. LIMITATIONS: Use product as per manufacturer’s instructions. Use only in applications per the manufacturer’s tested and published designs or per specific recommendations. End user must ultimately determine the suitability of the product and designs to his specific requirement and assumes responsibility for its use.

FIG. 1: EXAMPLE OF MAINTAINING STC VALUES OF WALL AND CREATING AN EFFECTIVE SOUND BARRIER

Arrows show path of sound travel

Sealant reduces sound transmission by blocking path of sound travel

FIG. 2: RECOMMENDED JOINT DESIGNS - AVOIDING THREE-POINT ADHESION

In the example shown above, sealant is applied (over foam backer rod) flush with wall surface. Back rod provides a release surface allowing sealant to contract after drying to the recommended hour glass cross-sectional profile.

This example illustrates sealant applied to the three planes. Bond breaker tape is applied to one surface to prevent three-point adhesion, eliminating stress on joint as sealant dries and enhancing movement capabilities.
**INSTRUCTIONS**

**GENERAL:** Areas to be protected must be clean and free of oil, loose dirt, rust or scale. Recommended storage and application temperatures range between 40°F (4°C) and 95°F (35°C). When applying product at the lower end of the temperature range, warming the material to 70°F (21°C) will enhance drying characteristics. Drying time will vary according to prevailing temperature and humidity. Allow to thoroughly dry before exposure to moisture.

Consult appropriate manufacturer’s drawing for system design requirements. Forming or packing materials may be required as an integral part of various system designs. See Table B for estimation information.

Sealant is auto-bonding and may be applied in stages. **DO NOT ATTEMPT TO THIN PRODUCT BY ADDING WATER.**

**THIS PRODUCT IS DESIGNED FOR PROFESSIONAL INSTALLATION ONLY.** This sealant is designed to contract while drying. Proper joint design is critical to sealant performance. Avoid three point adhesion through the use of appropriate backing or bond-breaking materials.

See Figure 2 for recommended joint designs. Consult ASTM C1193 Standard Guide for Use of Joint Sealants for additional guidelines concerning the proper application of sealant materials.

**MAINTENANCE**

Inspection: Installations should be inspected periodically for subsequent damage. Following safety precautions listed in Precautionary Information and pertinent installation guidelines, remove coating in damaged areas down to undamaged material. Reapply fresh coating material to original coating thickness.

**SPECIFICATIONS**

The fire protective sealant shall be a water-based, non-halogenated, elastomeric and shall contain no solvents, inorganic fibers, nor asbestos. The sealant shall dry to form a flexible, moisture resistant seal and shall adhere to all common construction surfaces. The sealant shall have demonstrated sound attenuation properties. The approved sealant shall be SpecSeal® Elastomeric Sealant.

**SPECIFIED DIVISIONS**

DIV. 7 — 07 84 00 Firestopping
DIV. 7 — 07 84 43 Fire Resistant Joint Sealants

**UL System No. HW-D-0079**

Assembly Rating – 1 & 2 Hr • Movement Capabilities: 25% Compress.
Nominal Joint Width: 3/4" • Forming Material: In 1 hr walls, apply bond breaker tape to ceiling track.
Sealant Depth: 5/8" depth on both sides.

**UL System No. HW-D-0034**

Assembly Rating – 1 & 2 Hr • Movement Capabilities: ±25% Compress/Extend.
Nominal Joint Width: 1" • Forming Material: Nom 4 pcf mineral wool to full depth.
Sealant Depth: 1/2" depth on both sides.

**UL System No. HW-D-0103**

Assembly Rating – 1 & 2 Hr • Movement Capabilities: 25% Compress.
Nominal Joint Width: 3/4" • Forming Material: In 1 hr walls, apply bond breaker tape to ceiling track.
Sealant Depth: 1/2" depth on both sides.
FIG. 6: HEAD-OF-WALL JOINT - MASONRY WALL TO CONCRETE OVER STEEL DECK

UL System No. HW-D-0039
Assembly Rating – 2 Hr
Movement Capabilities: ±25% Compress/Extend
Nominal Joint Width: 1”
Forming Material: Nom 4 pcf mineral wool to full depth.
Sealant Depth: 1/4” depth on both sides.

FIG. 7: HEAD-OF-WALL JOINT - MASONRY WALL TO CONCRETE FLOOR

UL System No. HW-D-0041
Assembly Rating – 3 Hr
Movement Capabilities: ±12.5% Compress/Extend or 25% Compress.
Nominal Joint Width: 1” or 3/4” (See System).
Forming Material: Optional foam backer rod.
Sealant Depth: 1” or 1/2” (See System) on both sides.

FIG. 8: FLOOR-TO-FLOOR JOINT - CONCRETE FLOOR TO CONCRETE FLOOR

UL System No. FF-D-0005
Assembly Rating – 3 Hr
Movement Capabilities: ±12.5% Compress/Extend
Nominal Joint Width: 1”
Forming Material: Optional foam backer rod.
Sealant Depth: 1/2” top and bottom.

FIG. 9: FLOOR-TO-WALL JOINT - CONCRETE FLOOR TO CONCRETE WALL

UL System No. FW-D-0005
Assembly Rating – 3 Hr
Movement Capabilities: ±12.5% Compress/Extend
Nominal Joint Width: 1”
Forming Material: Optional foam backer rod.
Sealant Depth: 1/2” top and bottom.

FIG. 10: FLOOR-TO-FLOOR JOINT - CONCRETE FLOOR TO CONCRETE FLOOR

UL System No. FF-D-1008
Assembly Rating – 3 Hr
Movement Capabilities: ±15% Compress/Extend
Nominal Joint Width: 4”
Forming Material: Nom 4 pcf mineral wool to 4” depth.
Sealant Depth: 1/2” depth of sealant.

FIG. 11: FLOOR-TO-WALL JOINT - CONCRETE FLOOR TO CONCRETE WALL

UL System No. FW-D-1007
Assembly Rating – 3 Hr
Movement Capabilities: ±15% Compress/Extend
Nominal Joint Width: 4”
Forming Material: Nom 4 pcf mineral wool to 4” depth.
Sealant Depth: 1/2” depth of sealant.
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