SERIES ES ELASTOMERIC SEALANT

PRODUCT DESCRIPTION

SpecSeal® Elastomeric Sealant is a non-halogenated latex-based, highly elastomeric caulk designed to provide passive smoke and fire protection in construction joints. This material is also designed to restore sound attenuation properties to sound-rated ceilings and partitions.

SpecSeal® Elastomeric Sealant is engineered to adhere to virtually all construction surfaces and may be applied using standard caulking equipment or by troweling. SpecSeal® Elastomeric Sealant dries to form a flexible shield against the propagation of fire. Its premium latex binder system is totally resistant to water and will not re-emulsify after drying. SpecSeal® Elastomeric Sealant contains no inorganic fibers, asbestos, or solvents.

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). 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. Backer 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 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

STI Product Data Sheet • ES Elastomeric Sealant • FOD-5032 01/2012

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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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