

THERMAL SEAL

ALL-IN-ONE FIREBLOCK + WINDOW & DOOR FOAM SEALANT

PRODUCT NAME

Thermal Seal - All-In-One Fireblock + Window & Door Insulating Foam Sealant

MANUFACTURER

Everkem Diversified Products
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PRODUCT DESCRIPTION

Thermal Seal All-In-One Fireblock + Window & Door Insulating Foam Sealant is a single-component, expanding polyurethane foam sealant that offers long lasting thermal and moisture protection. Therm Seal acts as a barrier to draft and air infiltration, water, moisture, smoke and flame, heat transfer, dust, noise, rodents, and insects.

Window & Door / Insulating Foam: Thermal Seal is a low-pressure expanding foam that is AAMA 812 compliant and is proven not to distort or bow out window and door frames when installed properly.

Fireblocking Foam: Thermal Seal has been formulated to expand and fill the annular space around wires, vents, pipes, ducts, and other mechanical items that penetrate sill/top plates and similar openings in Type V, **non-rated**, 1 & 2 family residential construction. Thermal Seal is UL evaluated as an alternative fireblocking material per IRC standards.

APPLICATIONS

- Type V residential construction
- **Non-rated** ceiling and floor openings
- Electrical, plumbing, and other mechanical penetrations
- Irregular voids and non-linear cracks, crevices, and gaps
- Space between window/door jambs and framing, framing & skylights

ADVANTAGES

- Inhibits the passage of flame, smoke, and toxic gases in non-fire rated construction
- Will not bow or distort window and door frames
- Tach free in 10 minutes
- Water resistant
- Interior and exterior applications
- Adheres to most common construction materials
- Easy to use and cost effective
- Identifiable orange color

LIMITATIONS

- **Not for use in hourly fire-rated assemblies.**
- Not for use in fireblocking applications where diameter of cavity is larger than $7^{1/8}$ " (36.51mm) without a thermal barrier. Maximum area of exposed sealants must not exceed 18 in.² per ft.² (116 cm² per m²)
- Cured foam will discolor if exposed to ultraviolet light

AVAILABLE COLORS

Thermal Seal is available in Orange.

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TECHNICAL DATA

TYPICAL PHYSICAL PROPERTIES

Typical Uncured Properties

Chemistry:	Polyurethane foam
Appearance:	Tan, foamy liquid mixture
Application Temperature:	28°F to 100°F (-2.2°C to 37.78°C); Optimum product temperature for application is between 65°F to 80°F (18°C to 27°C)
Tack Free Time:	5 to 10 minutes
Cutttable:	1 hour
Cure Time:	12 to 24 hours
Shelf Life: 1 year	15 months

Typical Cured Properties

Curing conditions of 75°F (24°C) and 50% relative humidity)

Cured State:	Orange, firm foam
ASTM-E84:	Tested to ASTM-E84 "Standard Test Method for Surface Burning Characteristics of Building Materials" 25 Flame Spread / 50 smoke developed
AAMA 812:	Tested to AAMA 812 "voluntary practice for assessment of single component Aerosol Expanding Polyurethane Foams for Sealing Rough Openings of Fenestration Installations"
Service Temperature:	-200°F to 240°F (-129°C to 116°C)
Paintability	Paintable
R-value:	4.20 per inch
V.O.C. Content:	165 g/L

APPLICABLE STANDARDS & SPECIFICATIONS

SPECIFIED DIVISIONS

- Section 07 92 00 - Joint Sealant
- Section 22 00 00 - Plumbing
- Section 23 00 00 - Heating, Ventilating, and Air Conditioning (HVAC)
- Section 26 00 00 - Electrical

APPLICABLE STANDARDS/SPECIFICATIONS

- ASTM-E84 - Standard Test Method for Surface Burning Characteristics of Building Materials
- AAMA 812 - Voluntary Practice for Assessment of Single Component Aerosol Expanding Polyurethane Foams for Sealing Rough Openings of Fenestration Installations

ECOSEAL STANDARDS

- V.O.C. Content: 165 g/L

INSTALLATION

PREPARATION

Surfaces should be clean of any debris or material that may prevent or deter adhesion. Such debris includes, but is not limited to: dirt, frost, loose particles, existing sealants, grease, oils, rust, etc.

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INSTALLATION (CONT.)
APPLICATION

1. The optimum product temperature for application is 65°F to 80°F (18°C to 27°C).
2. Shake well. Screw nozzle adapter onto valve stem, being careful not to activate the valve.
3. With the valve end of the can down, slowly press the trigger to dispense foam. Test on the experimental surface.
4. Fill cavities only 1/3 full to allow for expansion.
5. Thermal Seal dries tack-free in approximately 5 minutes, is cuttable within 1 hour, and cures in 12-24 hours. Cured foam exposed to sunlight should be painted or stained.
6. For overnight storage, close the gun regulator screw completely to secure the trigger. Can must remain fastened to gun during storage. For longer storage, consult gun instructions. Use GC-12 Multi-Purpose Polyurethane Foam & Gun Cleaner to keep dispensing unit working smoothly.
7. Store upright in a cool, dry area. Do not expose to temperatures exceeding 122°F (50°C). Keep nozzle on the can. Use remainder of can within 30 days.

CLEANUP

The excess, uncured foam may be removed with GC-12 Multi-purpose Polyurethane Foam & Gun Cleaner, or other foam gun cleaner. Cured foam must be removed mechanically. Cured foam may be trimmed or sanded.

AVAILABILITY

Thermal Seal and other Everkem products are available from stocking distributors nationwide or direct from the manufacturer. For the name and telephone number of the nearest Everkem representative, call the number below or visit www.everkemproducts.com

PACKAGING OPTIONS

PACKAGING OPTIONS			
Part #	Description	Packaging	Color
TS-GF24	Thermal Seal All-In-One Gun Dispensed Foam Sealant - 24oz. (709.765mL) Gun Dispensed Can	12 cans/case	Orange

TECHNICAL SERVICES

Everkem representatives are available to assist you in selecting the sealant or adhesive appropriate for your application. For further assistance contact your local Everkem Diversified Products representative, call our corporate office at 1-800-638-3160, or contact us via our website at www.everkemproducts.com

WARRANTY

Everkem Diversified Products warrants this product's performance provided it is properly stored and applied within 15 months. If when applied as directed this material proves to be defective, return the remaining product and proof of purchase for refund or replacement of product exclusive of labor or cost of labor. This is the sole and exclusive remedy for defects of product failure. The determination of eligibility for this warranty shall be made at the sole discretion of Everkem Diversified Products and any decision made shall be final. This warranty is in lieu of any other warranties, expressed or implied, including but not limited to a warranty of merchantability or fitness for a particular purpose, and in no instance will Everkem Diversified Products be liable for damages in excess of the purchase price, except where such exclusion or limitation is prohibited by state law. Users must read and follow the directions of the current Technical Data Guide and SDS prior to product use. The user determines the suitability of the product intended for use and assumes all risks. Recommendations for the use of this product are based on tests we believe to be reliable. The manufacturer and seller are not responsible for results where the product is used under conditions not in strict accordance with our published recommendations and in applications considered suitable for this product. Everkem Diversified Products shall not be responsible for the use of this product in a manner to infringe upon any patent or any other intellectual property rights held by others.

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CAUTIONS



DANGER: EXTREMELY FLAMMABLE. CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED. CAUSES SERIOUS EYE IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS. REPEATED EXPOSURE TO SKIN MAY CAUSE DRYNESS OR CRACKING. Keep away from heat, sparks, open

flames, and/or hot surfaces. No smoking. Do not spray on open flames or other ignition sources. Do not puncture, incinerate, or store can above 122°F (50°C). Do not breathe mist, vapors, or spray. Avoid contact with eyes and skin. Wear protective gloves. Wear eye or face protection. Wear clothing that protects against dermal exposure. Wash hands thoroughly after handling. **IF ON SKIN:** Wash with soap and water. Remove contaminated clothing, washing before reuse. If skin irritation occurs: Get medical attention. **IF IN EYES:** Rinse cautiously with water. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. **IF INGESTED:** Wash mouth with water. Remove victim to fresh air. Give small quantities of water to drink. Do not induce vomiting. Store locked up. Dispose of contents in accordance with all local, regional, national, and international regulations. **KEEP OUT OF REACH FROM CHILDREN.**

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