



TECH DATA SHEET

Thermal Protection 07 21 19
Foamed In Place Insulation

1. PRODUCT NAME

Touch 'n Seal® FR Two Component
Class I Fire Retardant Spray Foam
1.75 pcf (28 kg/m³) Density

2. MANUFACTURER

Convenience Products
866 Horan Dr., Fenton, MO 63026 USA
(636) 349-5855
(800) 325-6180
FAX: (636) 349-5335
E-mail: support@touch-n-seal.com
Website: www.touch-n-seal.com

3. PRODUCT DESCRIPTION

Touch 'n Seal Two Component Class I Fire Retardant Foam are available in portable, self-contained dispensing systems, CPDS chemical cylinders* and refill systems that, when used according to manufacturer's directions, supply Class I fire retardant, thermal insulating and sound attenuating 2-component polyurethane spray foam. Touch 'n Seal spray foam dries within minutes and forms a permanent air barrier.

Touch 'n Seal systems provide quick and easy foam application for repairs or renovations, new installations and production applications.

Basic Use

Touch 'n Seal Two Component Class I Fire Retardant Foam Kits are suitable for use in commercial, residential, transportation and many other applications. Touch 'n Seal spray foams offer increased structural strength, support, superior sound and thermal insulation, protection against energy-robbing air infiltration, thus reducing building energy consumption.

Sizes

Foam Kit 15 FR - Item # 4004520015
15 board feet (1.3 m² @ 25 mm)

Foam Kit 200 FR - Item # 4004001200
200 board feet (18.6 m² @ 25 mm)

Foam Kit 600 FR - Item # 4004521600
600 board feet (55.7 m² @ 25 mm)

Foam Kit 600 FR - Replacement
Item # 4004521601
600 board feet (55.7 m² @ 25 mm)

Foam Kit CP-750FR*
Item Number 4505500750
750 board feet (69.68 m² @ 25 mm)

(*Must be used with CPDS spray foam system)
Touch 'n Seal RF-17 - Item # 4505100000
2,000 bd ft (185.5 m² @ 25 mm)

Touch 'n Seal RF-60 - Item # 4505160000
6,800 bd ft (631.7 m² @ 25 mm)

Touch 'n Seal RF-120 - Item # 4505112000
15,400 bd ft (1,430.7 m² @ 25 mm)

Features/Benefits

- Class 1 fire retardant; passes DIN 4102-B2
- Easy to transport
- No expensive maintenance
- No investment cost
- No deposit/No return
- Reduces energy loss by as much as 40%

- Reduces use of fossil fuels and improves air quality
- Reduces sound transmission
- Permanent insulation; does not shrink or settle like cellulose; maintains air seal
- Compatible with all fiber insulation systems including cellulose, fiberglass and rockwool
- No Ozone Depleting Chemicals
- Helps to reduce Green House Gas Emissions
- Expands to fill smallest to largest gaps, cracks and holes, reducing air exchanges
- High R-value
- Closed cell structure/medium density
- Allows for down-sized HVAC systems; uses less energy, fewer cycle times, more consistent "comfort level", reduces equipment maintenance
- Significantly increases structural strength; important in high wind situations (per the Spray Polyurethane Foam Alliance)

Limitations

- Not for use as an exterior roofing system.
- Foam is combustible. Do not expose to temperatures above 250°F (121°C), open flames or sparks.
- Not for exposure to ultraviolet light.
- Chemical contents must be 70°F - 90°F (21° - 32°C) prior to spraying.
- Do not store in temperatures above 120°F (49°C).
- Always refer to local building code regulations.
- Certain structures such as cold storage and freezers have very specific design criteria. Ensure the structure has been designed by an appropriate design professional.
- Apply in layers up to 1" thick (25 mm) at a time. Apply in 1/2" (12mm) layers for best adhesion to substrate. Allow foam to cool between application of additional layers.
- Product is not a fire stop.
- Proper covering for this foam product may be required for various applications. TNS 2 component FR foam is permitted to be sprayed on sill plates and headers without a thermal or ignition barrier in thicknesses up to 3 ¼ inch thick according to ICC 2009/2012 Building Codes. Refer to local building codes for details specific to your area.

4. TECHNICAL DATA

Applicable Standards

- ASTM G21 Fungi Resistance
- ASTM E84 Surface Burning Characteristics
- ASTM E90 Sound Transmission Class
- ASTM E96 Water Vapor Transmission
- ASTM E283 Air Permeance
- ASTM C518 R-Value
- ASTM D1621 Compressive Strength
- ASTM D1622 Density
- ASTM D1623 Tensile Strength
- ASTM D2126 Thermal and Humid



- Aging - Dimensional Stability
- ASTM D6226 Closed Cell Content

Approvals/Certifications/Listings

- International Residential Code
- California Bureau of Home Furnishings and Insulation
- UL R14175

Physical/Chemical Properties

See "Typical Properties" table. Test data available upon request.

Surface Burning Characteristics @ 2" (51 mm) thick

- Flame Spread Index: 15
- Smoke Development: 350

Surface Burning Characteristics @ 3" (75mm) wide bead

- Flame Spread Index: 10
- Smoke Development: 50

Shelf Life

1 year in unopened container when stored between 60° - 90°F (16° - 32°C), in a dry, well ventilated area.

Storage & Disposal

Keep containers tightly closed in a cool, well-ventilated area. Ideal storage temperature is 60° - 90°F (16° - 32°C). Storage above 90°F (32°C) will reduce shelf life. Do not store at temperatures above 120°F (49°C). Avoid freezing. Do not expose containers to conditions that may damage, puncture, or burst the containers. Dispose of leftover material/containers in accordance with federal, state and local regulations. See Material Safety Data Sheet for more information. Refer to "Foam Kit Operation Instructions" for storage of partially used kits.

5. INSTALLATION / APPLICATION

Refer to "Foam Operation Instructions" found with the product packaging or request a faxed set of these instructions by calling Customer Service at 800-325-6180.

Always refer to local building codes prior to application of Touch 'n Seal® spray foam. Touch 'n Seal spray foam can be applied to and will adhere to almost any traditional building material surfaces including; wood, concrete, polystyrene, gypsum board, fiberboard, masonry and metal.

Surfaces to be sprayed must be dry, clean



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and free of dust, dirt, grease and other substances that may inhibit proper adhesion. For best results apply Touch 'n Seal spray foam when surface and ambient temperatures are between 60° - 90°F (16° - 32°C). Chemical contents must be between 70° - 90°F (21° - 32°C) before dispensing.

Use all chemical contents within 30 days of initial dispensing.

SAFETY INFORMATION

Keep out of reach of children.

Always wear proper personal protective equipment, including head covering, gloves, clothing, eyewear and respirator. Use in well-ventilated area.

Refer to manufacturer's Safe Use, Storage and Handling For Low Pressure Spray Foam Products brochure prior to handling Touch 'n Seal materials. You may request a copy of this document from Customer Service at 800-325-6180 or by downloading from www.touch-n-seal.com.

6. AVAILABILITY & COST

Availability

Touch 'n Seal Two Component FR Spray Foam Kits are available throughout the U.S., Canada, Mexico and the world. Contact Convenience Products Customer Service at 800-325-6180 or FAX 636-349-5335 for distributor information.

Cost

Contact Convenience Products for local distributors who can provide cost and delivery information.

7. WARRANTY

Convenience Products warrants this product to be free from defects. The Company shall not be liable for any consequential or other damage or remedy; its sole obligation and your exclusive remedy are limited to product replacement. Warranty is null and void if unit is operated without attaching a new spray foam applicator gun/hose set. Some states do not allow limitations on the exclusive or limitation of incidental or consequential damages, so the

above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights, and you may also have other rights which may vary from state to state. There are no warranties which extend beyond the description on the face hereof.

8. MAINTENANCE

Minor – Refer to "Foam Operation Instructions."

9. TECHNICAL SERVICE

Technical assistance, including detailed information, product literature, test results, assistance with preparing project specifications and application training is available by contacting Convenience Products.

10. FILING SYSTEMS

Additional information is available from the manufacturer upon request.

The information contained herein was accurate at the time of publishing. Please refer to the Touch 'N Seal website for the latest information.

TYPICAL PROPERTIES OF TOUCH 'N SEAL FR SPRAY POLYURETHANE FOAM 1.75 PCF (28.03 kg/m³)

Shelf Life	1 year; unopened container	
Theoretical Yield* Foam Kit 15 FR Foam Kit 200 FR Foam Kit 600 FR CP-750FR RF-17 RF-60 RF-120	15 board feet (1.3 m ² @ 25 mm) 200 board feet (18.6 m ² @ 25 mm) 600 board feet (55.7 m ² @ 25 mm) 750 board feet (69.68 m ² @ 25 mm) 2,000 board feet (185.5 m ² @ 25 mm) 6,800 board feet (631.7 m ² @ 25 mm) 15,400 board feet (1,430.7 m ² @ 25 mm)	
Dry time/Tack Free Time	30 – 60 seconds	
Fully Cured	Approximately 1 hour	
Cutable	2 – 5 minutes	
ASTM G21 Fungi Resistance	Does not support growth	
ASTM E84 Surface Burning Characteristics	Class 1 @ 2" (51mm) thick	Class 1 @ 3" (75mm) wide bead
Flame Spread	25	10
Smoke Development	350	50
ASTM E90 Sound Transmission Class	.33 @ 1½in. (38mm)	
ASTM E96 Water Vapor Transmission	3.0 perms @ 1 in. (25 mm)	
ASTM E 283 Air Permeance	< 0.01 ft ³ /sec/ft ² (< 0.05 L/s/m ²)	
ASTM C518-4 R-Value - Initial/Aged	7.12/5.48 / in. (25 mm)	
ASTM D1621 Compressive Strength	15 psi (1.05 kgf/cm ²)	
ASTM D1622 Density (core)	1.75 ± .1 pcf (28.03 ± 1.60 kg/m ³)	
ASTM D1623 Tensile Strength	38.23 psi (2.69 kgf/cm ²)	
ASTM D2126 Thermal and Humid Aging – Dimensional Stability	Linear	Mass
-40°F (-40°C) 2 weeks	+0.05%	+0.10%
158°F (70°C) 2 weeks	+1.90%	-2.95%
Combined -40°F (-40°C) 2 weeks & 158°F (70°C) 2 weeks	+1.85%	-2.85%
ASTM D6226 Closed Cell Content	> 90%	
Underwriters Laboratory Listed	R14175	
International Residential Code	Compliant	
California Bureau of Home Furnishings and Insulation	Filed	

*Theoretical yield is used as an industry standard to represent the size of two-component foam kits. The calculation is based upon ideal conditions, does not include blowing agent loss, and may vary according to application method or environmental factors.



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54002-071913-TNS