



# 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 Kits  
1.75 pcf (28 kg m<sup>3</sup>) Density  
Foam Kit 200 FR - Item # 4004001200  
Foam Kit 600 FR - Item # 4004521600

## 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 Kits are portable, self contained dispensing 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 is permanent and dries within minutes of application. Touch 'n Seal Spray Foam Kits use disposable, pressurized chemical cylinders to dispense polyurethane spray foams eliminating the need for external air compressors, pumping equipment or dry nitrogen. The system provides quick and easy foam application for repairs and 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 200 FR - Item # 4004001200  
200 board feet (18.6 m<sup>2</sup> @ 25 mm)

Foam Kit 600 FR - Item # 4004521600  
600 board feet (55.7 m<sup>2</sup> @ 25 mm)

### Features/Benefits

- Class 1 DIN 4102-B2 Rated, fire retardant foam
- 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
- 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
- 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.
- 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.
- Do not apply in layers more than 1/2" thick (12 mm) at a time. Allow foam to cool between the 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 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 Characteristic
- 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

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

### Physical/Chemical Properties

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

### Fire Performance @ 2" (51 mm)

- Flame Spread Index: 15
- Smoke Development: 250

### 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). 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 Kit Operation Instructions" found inside the product carton or request a faxed set of these instructions by calling Customer Service at 800-325-6180.



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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 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](http://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 Kit 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 PROFESSIONAL FR SPRAY POLYURETHANE FOAM 1.75 PCF (28.03 kg/m<sup>3</sup>)

Shelf Life	1 year; unopened container		
Output	200 board feet (18.6 m <sup>2</sup> @ 25 mm) 600 board feet (55.7 m <sup>2</sup> @ 25 mm)		
Dry time/Tack Free Time	30 – 60 seconds		
Fully Cured	Approximately 1 hour		
Cuttable	2 – 5 minutes		
ASTM G21 Fungi Resistance	Does not support growth		
ASTM E84 Surface Burning Characteristics @ 2" (51 mm)	15 250		
ASTM E96 Water Vapor Transmission	2.80 perms @ 1 in. (25 mm)		
ASTM E 283 Air Permeance	< 0.01 ft <sup>3</sup> /sec/ft <sup>2</sup> (< 0.05 L/s/m <sup>2</sup> )		
ASTM C518-4 R-Value - Initial/Aged	7.12/5.48 / in. (25 mm)		
ASTM D1621 Compressive Strength	13.1 psi (0.92 kgf/cm <sup>2</sup> )		
ASTM D1622 Density	1.75 ± .1 pcf (28.03 ± 1.60 kg/m <sup>3</sup> )		
ASTM D1623 Tensile Strength	38.23 psi (2.69 kgf/cm <sup>2</sup> )		
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%		
International Residential Code	Compliant		
California Bureau of Home Furnishings and Insulation	Filed		



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