



# TECH DATA SHEET

Thermal Protection 07 21 19  
Foamed In Place Insulation

## 1. PRODUCT NAME

Touch 'n Seal® CCMC Two Component  
Class I Fire Retardant Spray Foam  
28 kg/m<sup>3</sup> (1.75 pcf) 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 CCMC spray foam meets the requirements of CAN/ULC-S711.1-05, "Standard for Thermal Insulation - Bead-Applied Two Component Polyurethane Air Sealant Foam". Touch 'n Seal CCMC spray foam is available in portable, self-contained dispensing kits, CPDS chemical cylinders\* and refill systems that, when used according to manufacturer's directions, supply Class I fire retardant, air sealing, and sound attenuating 2-component polyurethane spray foam. Touch 'n Seal spray foam dries in less than 1 minute 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 CCMC foam is suitable for use in commercial, residential, transportation and many other applications. Touch 'n Seal spray foams offer increased structural strength, protection against energy-robbing air infiltration, thus reducing building energy consumption.

### Sizes

Foam Kit 15FR-CCMC  
Item# 4004520015 (15 board feet)

Foam Kit 200FR - CCMC  
Item # 4004522200  
18.6 m<sup>2</sup> @ 25 mm (200 board feet)

Foam Kit 600FR - CCMC  
Item # 4004526600  
55.7 m<sup>2</sup> @ 25 mm (600 board feet)

Foam Kit CP750FR - CCMC\*  
Item Number 4505507750  
69.68 m<sup>2</sup> @ 25 mm (750 board feet)

Touch 'n Seal RF120 - CCMC  
Item # 4505122000  
1,430.7 m<sup>2</sup> @ 25 mm (15,400 bd ft)

\*Must be used with CPDS spray foam system)

### Features/Benefits

- Permanent air-sealing/air-barrier
- 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

- 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 long-term 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.
- Foam is combustible. Do not expose to temperatures above 121°C (250°F), open flames or sparks.
- Not for exposure to ultraviolet light.
- Chemical contents must be 21° – 32°C (70°F - 90°F) prior to spraying.
- Do not store in temperatures above 49°C (120°F).
- 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 25 mm (1" thick) at a time. Apply in 12mm (1/2") 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. Refer to local building codes for details specific to your area.

## 4. TECHNICAL DATA

### Applicable Standards

- ASTM D1622 Density
- ASTM D1623 Elongation
- ASTM D1623 Tensile Strength
- ASTM D2126 Dimensional Stability
- ASTM E2178 Air Permeance
- ASTM D6226 Closed Cell Content
- CAN/ULC-S102 Surface Burning Characteristics Classification
- CAN/ULC-S711.1 Sec. 6.5.9 Tack Free Time
- CAN/ULC-S770-03 Long-Term Thermal Resistance
- CAN/ULC-S744 Volatile Organic Compounds
- CAN/ULC-S711.1 Appendix A Durability Performance

### Approvals/Certifications/Listings



- CCMC 13600-L

### Physical/Chemical Properties

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

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

- Flame Spread Index: 10
- Smoke Development: 50

### Shelf Life

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

### Storage & Disposal

Keep containers tightly closed in a cool, well-ventilated area. Ideal storage temperature is 16° – 32°C (60° - 90°F). Storage above 32°C (90°F) will reduce shelf life. Do not store at temperatures above 49°C (120°F). 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 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 16° – 32°C (60° - 90°F). Chemical contents must be between 21° – 32°C (70° - 90°F) before dispensing.

Use all chemical contents within 30 days of initial dispensing.



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## 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® CCMC Two Component Class I Fire Retardant Spray Foam kits are available throughout Canada. 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 provinces 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 province to province. 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-CCMC SPRAY POLYURETHANE FOAM 28.03 kg/m<sup>3</sup> (1.75 PCF)

Shelf Life	1 year; unopened container		
Theoretical Yield* Foam Kit 200 FR - CCMC Foam Kit 600 FR - CCMC Foam Kit CP750FR - CCMC RF120 - CCMC	18.6 m <sup>2</sup> @ 25 mm (200 board feet) 55.7 m <sup>2</sup> @ 25 mm (600 board feet) 69.68 m <sup>2</sup> @ 25 mm (750 board feet) 1,430.7 m <sup>2</sup> @ 25 mm (15,400 bd ft)		
Fully Cured	Approximately 1 hour		
Cutable	2 – 5 minutes		
ASTM D1622 Density (core) Free Rise In Place	28.03 ± 1.60 kg/m <sup>3</sup> (1.75 ± .1 pcf) 34 kg/m <sup>3</sup> (2.1 ± .1 pcf)		
ASTM D1623 Elongation at Break, %	5		
ASTM D1623 Tensile Strength, kPa	138 (20 psi) (1.4 kgf/cm <sup>2</sup> )		
ASTM D2126 Dimensional Stability, % Volume Change -20°C (-4°F) 70°C (158°F), 95 ± 3% RH	0.2 11.00		
ASTM E2178 Air Permeance	0.0012 L/m <sup>2</sup> s @ 75Pa		
ASTM D6226 Closed Cell Content, %	92		
CAN/ULC-S102 Surface Burning Characteristics Classification, 3" Wide Bead Flame Spread Smoke Development	10 50		
CAN/ULC-S711.1 Sec. 6.5.9 Tack Free Time, minutes	< 1		
CAN/ULC-S770-03 Long-Term Thermal Resistance, @ 75mm @ 50mm @ 25mm	m <sup>2</sup> · K/W	°F · ft <sup>2</sup> · h/BTU	°F · ft <sup>2</sup> · h/BTU · in
	3.00	17.04	5.77
	1.95	11.09	5.64
	0.96	5.44	5.52
CAN/ULC-S744 Volatile Organic Compounds	Pass		
CAN/ULC-S711.1 Appendix A Durability Performance, L/s-m Wood Window, @ 75 Pa PVC Window, @ 75 Pa	0.009 0.006		
CAN/ULC-S711.1-05, "Standard for Thermal Insulation - Bead-Applied Two Component Polyurethane Air Sealant Foam".	CCMC 13600-L		
Time To Occupy	25 hours		

\*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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