



TECH DATA SHEET

1. PRODUCT NAME

Touch 'n Seal® FR Two Component Class 1 Fire Retardant Spray Foam Kits

1.0 pcf (16kg m³) Density

2. MANUFACTURER

DAP Foam Inc.
307 Ingram, Pacific, MO 63060 USA

(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 Low Density Spray Foam is an open-cell, non-structural air sealing and insulating foam for use in both new construction and renovation of industrial, commercial, agricultural and residential properties.

Touch 'n Seal Low Density Spray Foam is available in 2 convenient formats; 1. Home Sealing Foam Kits are disposable, portable, self-contained, two-component spray foam dispensing systems, 2. Touch 'n Seal CP1200FR disposable chemical cylinders applied through the CPDS™ Series 2 dispensing system.

When used according to manufacturer's instructions, Touch 'n Seal Low Density Spray Foams reduce energy costs by eliminating structural air infiltration and improve indoor air quality by sealing out dust and pollen. Touch 'n Seal spray foam dries within minutes, forming a permanent Class 1 fire-retardant air barrier.

Basic Use

Touch 'n Seal Low Density Spray Foam is formulated and designed for use in commercial, industrial and residential "flash and batt" air sealing applications. Home Sealing Foam Kits and CP1200FR offer a superior building envelope control solution when used to "picture frame" around studs and thinly coat the wall cavity at ¼" – 1" thick. 1.0 pcf density spray foam creates a quieter environment by reducing impact and transmission noises.

Sizes

Foam Kit 300 - Item # - 4004520300
300 board feet (27.8 m² @ 25 mm)

Foam Kit 300 - Replacement
Item# - 4004520301

300 board feet (27.8 m² @ 25 mm)

Foam Kit 1000 - Item # 4004521000
1000 board feet (92.9 m² @ 25 mm)

Foam Kit 1000 - Replacement
Item # 4004521001

1000 board feet (92.9 m² @ 25 mm)

CP1200FR* – Item # 4505501200

1200 board feet (111.5 m² @ 25mm

(*Must be used with CPDS spray foam system)

Features/Benefits

- Provides excellent noise reduction and reduces sound transmission
- Class 1, fire-retardant
- Permanently air seals the building envelope; does not shrink or settle like cellulose
- Produces a light density foam with approximately 50% closed cell content
- Reduces energy loss
- Reduces use of fossil fuels and improves air quality
- Compatible with all fiber insulation systems including cellulose, fiberglass and rock wool
- Helps to reduce Green House Gas Emissions
- Expands to fill smallest to largest gaps, cracks and holes, reducing air exchanges
- Allows for down-sized HVAC systems; uses less energy, fewer cycle times, provides a more consistent "comfort level", reduces equipment maintenance
- No deposit/no return
- No expensive maintenance
- Prevents dust and pollen infiltration
- Easy to transport

Limitations

- Not for injection application, due to potential curing pressure build-up and/or excessive heat build-up.
- **Foam must be applied in layers** to avoid overheating or combustion.
- Recommended cured foam thickness per layer is 1 inch (25 mm). Never exceed 2 inches (50 mm). **Allow foam to cool between application layers.**
- Apply in ½ in (12 mm) first layer for best adhesion to substrate.
- Not for use as an exterior roofing system.
- Foam is combustible. Do not expose to temperatures above 200°F (93°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.
- Product is not a firestop.



- 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 Leakage
- ASTM C423 Noise Reduction Coefficient
- ASTM C518 R-Value
- ASTM D1622 Density
- ASTM D2856 Closed Cell Content
- ASTM D6226 Open Cell Content

Approvals/Certifications/Listings

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

Physical/Chemical Properties

See Table. Test data available upon request.

Surface Burning Characteristics @ 2" (51mm)

- Flame Spread Index: 10
- 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). 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.



TECH DATA SHEET

See Material Safety Data Sheet for more information.

5. INSTALLATION / APPLICATION

Please refer to "Operation Instructions" found inside 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 foam 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.

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 Home Sealing Foam Kits and CP1200FR sets are available throughout the U.S., Canada, Mexico and the world. Contact DAP Customer Service at 800-325-6180 or FAX 636-349-5335 for distributor information.

7. WARRANTY

If product fails to perform when used as directed, within one year from the date of purchase, call 1-888-DAP-TIPS, with your sales receipt and product container available, for replacement product or sales price refund. DAP will not be responsible for incidental or consequential damages.

8. MAINTENANCE

Minor – Refer to Home Sealing Foam Kit and CP1200FR "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 1-888-DAP-TIPS.

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 SPRAY POLYURETHANE FOAM 1.0 pcf (16kg/m³)

Shelf Life	1 year; unopened container
Theoretical Yield* Foam Kit 300 Foam Kit 1000 CP1200FR	300 board feet (27.8 m ² @ 25 mm) 1000 board feet (92.9 m ² @ 25 mm) 1200 board feet (111.5 m ² @ 25 mm)
Tack Free Time	30 – 60 seconds
Fully Cured	Approximately 1 hour
Cutttable	2 – 5 minutes
ASTM G21 Fungi Resistance	Does not support growth
ASTM E-84 Surface Burning Characteristics @ 2" (51 mm) Flame Spread Smoke Development	10 250
ASTM E-90 Sound Transmission Class	.33 @ 1½ in. (38mm)
ASTM E-96 Water Vapor Transmission	5.4 perms @ 1 in. (25 mm)
ASTM E-283 Air Leakage 1.57 psf (25 mpf) 6.24 psf (50 mpf)	0.003 cfm/sq ft 0.008 cfm/sq ft
ASTM C423 Noise Transmission Coefficient	.35
ASTM C-518 R-Value – Initial / Aged	4.96 / 4.1 / in. (25 mm)
ASTM D-1622 Density (core)	1.0 – 1.25 pcf/16.0 – 20.0 kg/m ³
ASTM D-2856 Closed Cell Content	< 10%
ASTM D-6226 Open Cell Content	> 90%
International Residential Code	Compliant
California Bureau of Home Furnishings and Insulation	Listed
CSI masterformat® Categorization	Thermal Protection 07 21 19
	Sprayed In Place Insulation 07 21 29
	Acoustical Insulation 09 81 00

*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.