



# POLYURETHANE REFILL SYSTEM



## Two-Component System for Value and Versatility

- Class 1 Fire-Retardant Foam
- Consistent High-Quality Dispensing
- Easy-to-Use
- Minimal Start-up Cost





# POLYURETHANE REFILL SYSTEM

- ✓ *Easier set-up and maintenance than “foam rigs”*
- ✓ *Lower investment, returnable systems*
- ✓ *Enhances structural integrity*
- ✓ *Provides air sealing, thermal & sound insulation*
- ✓ *Suitable for new construction, retrofit & transportation industries*
- ✓ *Ideal for full cavity filling and “flash & batt” applications*

## Ideal for use on:

- Refrigerated trailers, railcars
- Fire trucks, ambulances & emergency response vehicles
- Commercial building insulation/air barrier air sealing
- Grain drying bins, barns, coops, and out buildings
- Boating — marine seat and hull flotation, pier and dock flotation
- Buses & limos
- Pools & spas
- HVAC

## Typical Applications

- Sound & vibration suppression
- Full home insulation/air barrier sealing
- Moisture proofing — insulates and seals walls
- Structural support
- Support, insulate and deaden sound in fiberglass tubs & showers
- Plumbing & waste piping noise reduction
- Reducing sound in partition walls
- Insulating underground piping/support
- Cold storage piping and system insulation



Reefer trailer repair



New construction application

## Technical Data

- Class 1 Fire-Retardant
  - ASTM E-84: Flame Spread 15, Smoke Developed 250
- Density ASTM D-1622:  $1.75 \pm .1$  pcf ( $28.03 \pm 1.60$  kg/m<sup>3</sup>)
- K-Factor ASTM C-518:  $0.14$  BTU • in • hr<sup>-1</sup> • ft<sup>-1</sup> • F<sup>-1</sup> (initial)
- R-Value ASTM C-518: 7.12 per inch (25 mm) (initial)  
4.6 per inch (25 mm) (aged)
- Compressive Strength ASTM D-1621: 10%, parallel: 13.1 psi, 0.92 kgf/cm<sup>2</sup>
- ASTM E-96 Water Vapor Permeability: perms/inch (25 mm): 2.8
- Tensile Strength ASTM D-1623: parallel: 38 psi, 2.69 kgf/cm<sup>2</sup>
- Dimensional Stability (ASTM D-2126):
  - 40°F (-40°C), 2 weeks: +0.05% volume change
  - 158°F (70°C), 100% RH, 2 weeks: +1.90% volume change
- Water Absorption ASTM D-2842: 1-3.5%
- Closed Cell Content ASTM D-2856: > 90% min.
- Shelf Life: 12 months in unopened container
- Limitation: Not for use as a fire stop
- Maximum Service Temp. for Cured Foam: 240°F (116°C)



Foam Applicator

- **Patented Anti-Crossover gun**
- **Foam output up to 5.5 lbs. per minute**
- **Controllable metering rate**
- **Lightweight, sturdy construction**
- **Low replacement cost**
- **Minimal maintenance**
- **Reusable**

On/Off Valve,  
Hose to Applicator

Regulator, Nitrogen

Hose  
Set

Filter Assembly,  
Refillable

On/Off Valve,  
Tank to Hose

## Refill System Components

ITEM NUMBER	ITEM DESCRIPTION	PACK/ FILL
4505100000	RF17-1.75 PCF REFILLABLE ("A" & "B" Chemical Tanks Only)	1
4505160000	RF60-1.75 PCF REFILLABLE ("A" & "B" Chemical Tanks Only)	1
4505120000	RF120-1.75 PCF REFILLABLE ("A" & "B" Chemical Tanks Only)	1
4505100012	Foam Applicator w/ 12" (30cm) Hoses	1
4505100035	Foam Applicator w/ 60' (18m) Hose Kit	1
4505100045	Hose Set - 30' (9m) - Refillable	1 - 30' (9m) Set
4505100075	Hose Set - 150' (49m) - Refillable	1 - 150' (49m) Set
4505100025	Filter Assembly - Refillable	2
4505100040	On/Off Valve - Tank to Hose	2
4505100050	On/Off Valve - Hose to Applicator	2
4505100055	Hose Set - Nitrogen Refillable	2
4505100060	Heater Bands w/Controls - Refill	1 set
4505100065	Regulator - Nitrogen	1
4505100080	Nozzle Kit - Calibration	25 per pack
4004529930	Nozzle Kit Clear - Conical	25 per pack
4004529940	Nozzle Kit Yellow - Fan	25 per pack
4505100070	Heated Hose 50' (15m) Master	1
4505100071	Heated Hose 50' (15m) Slave	1
4505100072	Controller - Heated Hose	1
4505100085	Temp Gauge Assembly - Chemical	1
4505100086	Temp Gauge	1



Temp Gauge



Controller - Heated Hose



Heated Hose

## Heated Hose Specifications

ELECTRICAL HEATED HOSE per 50 ft. (15m) section	
Volts	120V
Amps	4.5
Watts	538
Maximum Hose Length	150 ft. (49 m) (1 Master and 2 Slave Hoses)
Maximum Input Pressure	200 psi

## Features and Benefits of Touch 'n Seal® Spray Polyurethane Foam

FEATURES	BENEFITS
Class 1, fire-retardant foam	<ul style="list-style-type: none"> <li>Highest level of fire safety</li> </ul>
High-density polyurethane spray foam is permanent insulation and does not shrink or settle	<ul style="list-style-type: none"> <li>Reduces energy costs by as much as 40%</li> <li>Maintains air seal better than fiberglass, cellulose and rockwool</li> <li>Significantly increases structural strength: important in high wind situations (per the Spray Polyurethane Foam Alliance)</li> </ul>
High-expansion closed cell content	<ul style="list-style-type: none"> <li>Provides high R-value, allowing for downsized HVAC systems</li> <li>Well insulated facilities use less energy and provide greater personal comfort</li> <li>Expands to fill small to large gaps, cracks and holes, reducing air exchanges</li> </ul>
Compatible with all fiber insulation systems, including cellulose, fiberglass and rockwool	<ul style="list-style-type: none"> <li>Can be used in “flash and batt” applications</li> <li>Can be used to “retrofit” and re-insulate without worry of compatibility</li> </ul>
High R-value (high insulating value)	<ul style="list-style-type: none"> <li>Provides greater personal comfort</li> <li>Reduces use of fossil fuels by reducing energy use</li> <li>Saves money</li> </ul>
No ozone depleting chemicals	<ul style="list-style-type: none"> <li>Helps to reduce greenhouse gas emissions and protect the environment</li> </ul>

## Properties

UNIT SIZE		 17 gallons/ 64.34 liters	 60 gallons/ 227.12 liters	 120 gallons/ 454.25 liters
Chemical Weight – lbs/kg		150 / 68.04	500 / 226.80	1,125 / 510.29
Empty Tank Weight With Fittings – lbs/kg		65 / 29.48	172 / 78.02	314 / 142.43
Gross Weight of Filled Tanks – lbs/kg		215 / 97.52	672 / 304.81	1,439 / 652.72
*Estimated Yield @ 1.75 pcf – bd ft/m <sup>2</sup> @ 25mm thick		2,000 / 185.81	6,800 / 631.74	15,400 / 1,430.71
Cylinder Dimensions – in/mm (FOR SHIPPING)	Diameter	15 / 381	24 / 610	30 / 762
	Height	34 / 864	46 / 1,168	57 / 1,448

\* Note: Theoretical yield is used as an industry standard to represent the size of 2-component foam kits. The calculation is based on ideal laboratory conditions, does not include blowing agent loss, and may vary according to application method or environmental factors.



**Convenience products**

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