

Technical Data Sheet




Froth-Pak™

DuPont™ Froth-Pak™ Foam Systems 180/600

FEATURES

Description

DuPont™ Froth-Pak™ Foam Systems is a new two-component polyurethane spray foam product, which boasts a global warming potential (GWP) reduction of 99% compared to the legacy Froth-Pak™ product and does not contain ozone-depleting chemicals or HFCs, while maintaining performance. It comes in two separate portable and disposable pressurized cylinders requiring no external power source. It allows a fast and easy production of high-quality PU-foam for professional use in all different applications. Once fully cured, Froth-Pak™ Foam Systems is thermally stable in the temperature range of -150 °C to +100 °C. This product can be used in Cryogenic applications.

Froth-Pak™ Foam Systems – Example applications

Agriculture

- Grain storage bin sealant
- Silo sealant

Cold storage

- Ceiling, wall and floor seams
- Corrugated roof decks

Heating and ventilating

- Duct sealant
- Geothermal pipe insulator

Plumbing

- Structural support
- Around copper or PVC

Theatre

- Stage and movie sets
- Floats

Air-sealing

- Around doors and windows
- Roof and wall joints penetrations

Commercial vehicles

- Insulation
- Sound dampening
- Vibration dampening
- Sealant against air, water & dust

Insulation

- Stud wall cavity fill
- Container conversion and repairs

Pools and Spa

- Sound dampening
- Insulation repair

Why use Froth-Pak™ Foam Systems?

- The foam machine in one kit
- Convenient and easy to use
- Dispenses, expands, and becomes tack free in seconds
- Cut, sand, and paint in minutes
- Great flow control, less waste
- Excellent for filling hard to reach areas and irregular surfaces
- Portable and self contained kit, ready to use in minutes.
- High thermal resistance
- Foam bonds to most surfaces
- No other equipment needed
- Seals completely to improve airtightness
- Keeps out smoke, odour, and moisture
- Wide range of specialized dispensing nozzles

INSTALLATION

Preparation and temperature

Prior to spraying the foam, surfaces must be dry, firm, clean and free of dust, grease, or loose particles. Not approved for use on wet surfaces or on substrates with standing water. Approved product temperature range is from +20 °C to +25 °C.

Optimal product temperature +22 °C.
Minimum air temperature +5 °C (if needed, condition the product by using a heating blanket or similar).

Equipment

For best possible performance and foam quality we recommend the use of DuPont accessories.

Available Accessories

Insta-Flo™ applicators (1 piece/box):
Insta-Flo™ Gun Hose Assembly 9 ft / 2,7 m (GMID 12031372*)
Insta-Flo™ Gun Hose Assembly 15 ft / 4,5 m (GMID 12031366**)
Insta-Flo™ Gun Hose Assembly 30 ft / 9 m (GMID 12031364***)
Nozzle kits (25 pieces/box):
Blue nozzles (GMID 259216) with medium flowrate to spray areas such as walls, ceilings, and roofs.
White nozzles (GMID 259219) with medium flowrate to fill voids and gaps.
Black nozzles (GMID 259220) with high flowrate to fill huge voids.

* will soon replace GMID 158456
** will soon replace GMID 158457
*** will soon replace GMID 378922

Fan	Cone	Pour
The fan type nozzle provides a fine fan spray pattern resulting in a smooth foam surface (paint spray finish)	The cone type nozzle provides a round spray pattern for multiple applications and surfaces	The pour type nozzle is designed to fill large cavities
Standard fan nozzle	Standard fan nozzle	Standard pour nozzle
New type fan nozzle	New type fan nozzle	

Anti-Crossover Nozzles (25 Pack)

Part#	Output Kg/Min	Nozzle Type	Front/Back – Nozzle Color
259216	Medium 2 kg/Min	Fan	Blue/White
259219	Medium 2 kg/Min	Cone	Transparent/White
259220	High 4-5 kg/Min	Pour	Transparent/Black

New Anti-Crossover Nozzles (25 Pack)

Part#	Output Kg/Min	Nozzle Type	Front/Back – Nozzle Color
12030878	Medium 2 kg/Min	Fan	Blue/White
12030877	Medium 2 kg/Min	Cone	Transparent/White (Included in Froth-Pak™ kits)
259220	High 4-5 kg/Min	Pour	Transparent/Black

Curing

Froth-Pak™ Foam Systems generally cures very fast. After ~5 minutes the foam is fully cured. Cured foam can only be removed mechanically.

PROPERTIES

Standard Unit	Cured foam ²⁾						Thermal conductivity (@ 10 °C)	Reaction to fire
	Net weight cylinder ¹⁾	Free rise density	Injected density	Yield ³⁾	Rise time	Compressive strength		
	–	Internal	Internal	Internal	Internal	EN826	EN 12667	EN 13501-1
	kg	kg/m ³	kg/m ³	Liter	s	kPa	W/(m·K)	–
Froth-Pak™ Foam Systems 180 QR Kit	11.9	28	–	400	30	120	≤ 0.022	E
Froth-Pak™ Foam Systems 180 SR Kit	11.9	34	40	400	90	120	≤ 0.022	E
Froth-Pak™ Foam Systems 600 QR	19.9	28	–	1300	30	120	≤ 0.022	E
Froth-Pak™ Foam Systems 600 SR	19.9	34	40	1300	90	120	≤ 0.022	E
Froth-Pak™ Foam Systems 600 ISO	20.5	–	–	–	–	–	–	–

CE-Code PU-EN14315-1-W0.4-DS(70,90)3-DS(-20)1

1) DuPont™ Froth-Pak™ Foam Systems consists of 2 cylinders: one polyol and one isocyanate cylinder of same size.

2) All the above stated properties have been tested on non-aged foam in norm climate (23 °C /50 % R.H.), typical values are given.

3) Yield calculations based on values determined in lab conditions, blowing agent loss and other impacts neglected. An example: 1 m³ equals 20 m² with foam thickness of 50 mm.

SAFE HANDLING

Important

For Professional Use Only – The Froth-Pak™ Foam Systems cylinders contain isocyanate, blowing agent, and polyols under pressure. Please read carefully the user manual that comes with the product (inside the product box) or available at our Website www.froth-pak.dupont.com and the Safety Data Sheets (SDSs) before use. The safety precautions and personal protective equipment indicated below are designed to protect the user and allow for the safe use and handling of the product. These documents contain important information on applicable safety regulations and the provisions on the protection of health. Safety Data Sheets are revised regularly – please request and note the latest version before using/processing or obtain directly at: www.froth-pak.dupont.com (SDS Finder)

Please note of the following requirements for the safe use of this product by professional and industrial users in the European Union. This information is present on Section 2.2 of the SDS, as well as on the product label and packaging of the Isocyanate component of the product:

As from 24 August 2023 adequate training is required before industrial or professional use.
For more information, please visit: feica.eu/Puinfo.

- Isocyanate is irritating to the eyes, skin, and respiratory system, and may cause sensitization by inhalation or skin contact.
- Wear Personal Protective Equipment (PPE) when handling Froth-Pak™ Foam Systems. PPE must at minimum include:
 - Protective clothing or impermeable coveralls, which cover all skin (including long sleeves).
 - Chemical-resistant gloves that are coated with nitrile, butyl rubber, neoprene or PVC, goggles or safety glasses, unless using a full-face respirator.
 - Proper respiratory protection.

- Do not breathe vapor or mist. Use only with adequate ventilation. Do not enter in confined spaces unless adequately ventilated.
- Respiratory protection also requires proper workspace ventilation.
- Froth-Pak™ Foam will adhere to most surfaces and skin. Avoid ALL skin contact. Wear gloves and protective clothing. Cured foam is difficult to remove. Cured foam must be mechanically removed or allowed to wear off in time.
- These products should not be sprayed where the foam may come into contact with hot surfaces, such as heaters, furnaces, fireplaces, or recessed lighting fixtures.
- Avoid overfilling restricted spaces. The reaction of these chemicals causes expansion and may exert enough force to cause an uncontrolled stream of foam, spraying the work area and possibly the operator.
- Contents are under pressure.

Shelf Life and Storage

Store and transport cylinders always in an upright position and in dry conditions. Product and accessories need to be protected from direct sunlight and freeze.

Storage temperature: +5 °C to +25 °C

Shelf life: 15 months

Supplemental Information

Visit www.froth-pak.dupont.com or contact a local DuPont representative for more specific instructions.

Packaging

Product type	Countries	GMID
Froth-Pak™ Foam Systems 180 QR Kit	DE	12082274
Froth-Pak™ Foam Systems 180 QR Kit	AT, BE, CH, FR, IT, LUX, NL, PT, ES, DK, SE, NO, FI, EE, LV, LT	12082268
Froth-Pak™ Foam Systems 180 QR Kit	UK, PT, ES, IR, PL, BG, CZ, SL, HU, RO, SK, RU, HR, RS, GR	12082636
Froth-Pak™ Foam Systems 180 SR Kit	DE	12081987
Froth-Pak™ Foam Systems 180 SR Kit	AT, BE, CH, FR, IT, LUX, NL, PT, ES, DK, SE, NO, FI, EE, LV, LT	12081989
Froth-Pak™ Foam Systems 180 SR Kit	UK, PT, ES, IR, PL, BG, CZ, SL, HU, RO, SK, RU, HR, RS, GR	12082624
Froth-Pak™ Foam Systems 600 ISO	DE	12081652
Froth-Pak™ Foam Systems 600 ISO	AT, BE, CH, FR, IT, LUX, NL, PT, ES, DK, SE, NO, FI, EE, LV, LT	12081653
Froth-Pak™ Foam Systems 600 ISO	UK, PT, ES, IR, PL, BG, CZ, SL, HU, RO, SK, RU, HR, RS, GR	12081654
Froth-Pak™ Foam Systems 600 QR POLYOL	DE	12081964
Froth-Pak™ Foam Systems 600 QR POLYOL	AT, BE, CH, FR, IT, LUX, NL, PT, ES, DK, SE, NO, FI, EE, LV, LT	12081965
Froth-Pak™ Foam Systems 600 QR POLYOL	UK, PT, ES, IR, PL, BG, CZ, SL, HU, RO, SK, RU, HR, RS, GR	12081967
Froth-Pak™ Foam Systems 600 SR POLYOL	DE	12081899
Froth-Pak™ Foam Systems 600 SR POLYOL	AT, BE, CH, FR, IT, LUX, NL, PT, ES, DK, SE, NO, FI, EE, LV, LT	12081910
Froth-Pak™ Foam Systems 600 SR POLYOL	UK, PT, ES, IR, PL, BG, CZ, SL, HU, RO, SK, RU, HR, RS, GR	12081911



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