

DuPont™ Froth-Pak™ 180 Kit

Polyurethane Sprayfoam Insulation

FEATURES

Description

DuPont™ Froth-Pak™ 180 is a two-component polyurethane spray foam insulation kit. 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. There are three different grades available, DuPont™ Froth-Pak™ 180 QR* (quick-rise), DuPont™ Froth-Pak™ 180 SR* (slow-rise) and DuPont™ Froth-Pak™ 180 HD* (high density). Once fully cured, DuPont™ Froth-Pak™ 180 is thermally stable in the temperature range of -120 °C to + 100 °C, this product can be used in Cryogenic applications.

Ease of use

DuPont™ Froth-Pak™ cures very fast. After 2 minutes the foam can be trimmed, cut, sanded, painted or plastered over. DuPont™ Froth-Pak™ is designed for building as well as automotive and industrial applications, whenever gaps and voids need to be filled and sealed with a tight and highly insulating foam. The key advantages of DuPont™ Froth-Pak™ are:

- Airtightness
- Sound damping and good insulation properties
- Barrier against smoke and smell
- Mobile and portable kit – instant and fast application
- Easy to use
- Little waste due to precise application with dedicated nozzles
- Fast reaction time/short tack free time
- Can be cut and painted within minutes after application

INSTALLATION

Processing information

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 +24 °C
 Minimum air temperature +5 °C
 Optimal surface temperature > +15 °C

Application

Preparing DuPont™ Froth-Pak™ for use:

1. Shake each cylinder at least 20 times, then attach the swivel fitting of the red hose to the ISO tank, and the swivel fitting of the blue hose to the Polyol tank. Tighten securely.
2. Slowly open the valve on top of each tank, 2 full turns are typically enough. Check for leaks.
3. Remove the protective flap from the DuPont™ Insta-Flo™* dispenser and apply petroleum jelly.
4. Purge the system into a waste container by completely pulling the trigger of the dispenser. Chemical streams must be of equal volume and steady flow for good quality foam. When streams are equal, release the trigger, clean the chemical from the dispenser face with a clean rag and reapply petroleum jelly.

5. Firmly insert the desired nozzle (e.g. area or pouring nozzle). Make sure that the yellow safety clip properly locks in the nozzle.
6. On a nozzle change push down the safety latch to release the nozzle. Only then the nozzle can be removed.
7. When inserting a new nozzle, make sure that both outlets as well as the nozzle carrier are free of product. If not clean first.

Applying DuPont™ Froth-Pak™:

8. Position the system to your needs at the cavity you intend to fill or the area to cover, squeeze the yellow safety trigger then completely pull the trigger to apply the foam.
 Note: Do not dose the DuPont™ Insta-Flo™* trigger, always press the DuPont™ Insta-Flo™* trigger fully.
9. Take care not to fill more than a third of the cavity, typically the foam volume roughly triples with full expansion.
10. After interruptions of more than 60 seconds the nozzle shall be replaced. For longer interruptions, ie hours or days, leave the used nozzle in the applicator and change it on restart. For interruption in the range of several days or weeks, remove the used nozzle and clean the carrier. On restart put a fresh nozzle.

Important instructions:

- If your spray pattern becomes noticeably different, replace the nozzle.
 - If the foam does not react properly, replace the nozzle.
 - If the foam is friable or brittle, the foam is ISO rich, and a partial blockage of the polyol side exists. Clear the blockage from the polyol side by following steps 1 to 8 below.
 - If foam remains soft or mushy, the foam is polyol rich and a partial blockage of the ISO side exists. Clear the blockage from the ISO side by the following:
1. Shut off the tank valve of the component that is flowing properly.
 2. Activate the trigger full force and hold for 15 seconds or until the blockage is freed.
 3. Turn on both chemical tank valves and completely pull the trigger: components A and B MUST flow steadily and homogeneously!
 4. Clean any chemical from the face of the Insta-Flo™ dispenser with a clean rag and reapply petroleum jelly.
 5. Insert an unused nozzle, open all valves and dispense a test shot into a waste container.
 6. After curing, check the foam quality. If problems still occur, stop foaming.
 7. Turn off chemical tank valves and replace with a new Insta-Flo™ dispenser-hose assembly.
 8. If the replacement does not solve the problem, please contact your DuPont representative.

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 9FT* (GMID 158456)
- Insta-Flo™ Gun Hose Assembly 15FT* (GMID 158457)
- Insta-Flo™ Gun Hose Assembly 30FT* (GMID 378922)

Nozzle kits (25 pieces/box)

- Yellow nozzles (GMID 259212) with little flow-rate to fill complicated areas.
- Grey nozzles (GMID 259218) with medium flow-rate to spray areas such as walls, ceilings and roofs.
- White nozzles (GMID 259219) with medium flow-rate to fill voids and gaps.
- Black nozzles (GMID 259220) with high flow-rate to fill huge voids.

Curing

DuPont™ Froth-Pak™ generally cures very fast. After ~2 minutes the foam is fully cured. Cured foam can only be removed mechanically.

PROPERTIES

	Unit	DuPont™ Froth-Pak™ 180 Kit QR	DuPont™ Froth-Pak™ 180 Kit SR	DuPont™ Froth-Pak™ 180 Kit HD	STANDARD
Aerosol cylinder ¹⁾					
Net weight	kg	12	12	12	-
Cured foam ²⁾					
Density	kg/m ³	30	30	45	EN17333-1 M4
Yield ³⁾	Liter	390	390	260	EN17333-1 M1
Rise time	s	30	60	30	DuPont
Compressive strength	kPa	130	130	250	EN 826
Thermal conductivity	W/m·k	≤ 0.022	≤ 0.022	≤ 0.028	EN 12667
Reaction to fire	-	E	E	E	EN 13501-1
CE-Code	PU-EN14315-1-W0.2-DS(70,90)3-DS(-20)1				

1) DuPont™ Froth-Pak™ Kit 180 cylinder pressure polyol 14.5 bar, isocyanate 16 bar

2) All the above stated properties have been tested on non-aged foam in norm climate (23°C / 50% r.F.), 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

HANDLING

Important

DuPont™ Froth-Pak™ 180 is for professional use only. Before starting working with DuPont™ Froth-Pak™, users must attend a product training to learn how to safely apply the foam. Note that the foam expands to 3 to 5 times the original volume. DuPont™ Froth-Pak™ foams homogeneously without adding moisture. The cured foam is resistant to temperatures in the range of -120 °C to +100 °C. The foam exhibits a high durability, if protected from direct sunlight i.e. UV radiation.

Precautionary Statements

Read and follow the entire Installation and Handling section and the Safety Data Sheets (SDSs, formerly MSDSs or Material Safety Data Sheets) carefully before use. They are intended to make it easier for the customer to safely handle the products and their proper disposal. They contain important information on applicable safety regulations and the provisions on the protection of health. Material safety data sheets are revised regularly – please request and note the latest version before using/processing or obtain directly at:

www.dupont.com (SDS Finder)

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: +10°C to +25°C

Shelf life: 15 months

Packaging

DuPont™ Froth-Pak™ 180 kits are packed in carton boxes with 1 tank of each, isocyanate and polyol.

DuPont™ Froth-Pak™ 180 kit is available in three different grades:

DuPont™ Froth-Pak™ 180 kit QR (GMID 248474)

DuPont™ Froth-Pak™ 180 kit SR (GMID 248471)

DuPont™ Froth-Pak™ 180 kit HD (GMID 357670)

Supplemental Information

Visit www.building.dupont.com or contact a local DuPont representative for more specific instructions.



Wear safety glasses to avoid contact with eyes. Do not get foam on skin. Cover all skin, wear long sleeves and gloves. Avoid breathing vapor. Use with adequate ventilation. Do not enter confined spaces unless adequately ventilated. Respiratory protection also requires proper work space ventilation.



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