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insulation solutions

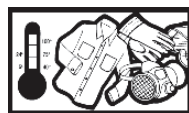
# FROTH-PAK™ polyurethane foam system

## FROTH-PAK™ 180 and FROTH-PAK™ 600

### Instructions

#### WARNING

- >> Before using FROTH-PAK™ please read and follow the instructions on this sheet.
- >> Before using FROTH-PAK™ please read Material Safety Data Sheet.
- >> Only use FROTH-PAK™ with INSTA-FLO™ dispenser and hose assembly.
- >> ALWAYS:       Wear protective eyewear, gloves and clothing when using FROTH-PAK™.  
                      Use only with adequate ventilation or appropriate respiratory equipment.  
                      Keep product at 24°C or higher during application.

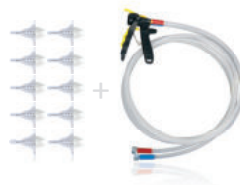


#### CONTENTS OF FOAM KITS:

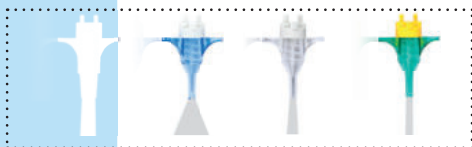
- >> FROTH-PAK™ 180: 2 Steel tanks containing: isocyanate and formulated polyol
- >> FROTH-PAK™ 600: 1 Steel tank containing: isocyanate or formulated polyol

#### DISPENSING ACCESSORIES SOLD SEPARATELY:

- >> 1 gun/hose assembly containing :
  - 1 INSTA-FLO™ dispenser and hose
  - 10 Anti-Crossover Cone Spray Nozzles
  - 1 Petroleum jelly packet
  - 1 Wrench
  - Instructions



- >> A variety of foam dispensing nozzles is available with alternative spray patterns and various dispensing rates.

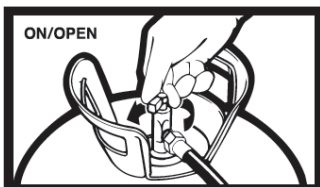


## GETTING THE KIT READY

- >> Use the wrench from the assembly kit for INSTA-FLO™ dispenser/hose.
- >> Tighten the hose assemblies for both “A” and “B” valves until both are tight.
- >> The wrench is intentionally designed to warp or bend if excessive pressure is applied.
- >> Apply a coating of petroleum jelly to the inside face of the INSTA-FLO™ dispenser. This makes cleaning of the dispenser face much easier and extends the effective life of the dispenser.



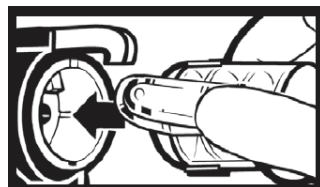
- 
- >> Turn the tank valves on fully, noting the initial movement of chemical through the clear hoses as a confirmation of flow.



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- >> Purge the system into a waste container by activating the trigger of the INSTA-FLO™ dispenser.
  - >> Chemical streams must be of equal volume to assure 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.



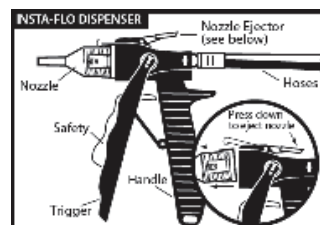
- 
- >> Select and insert firmly an Anti-Crossover Nozzle into the INSTA-FLO™ dispenser. Be sure the dispenser clips the nozzle firmly in place.



## USING THE KIT

- >> Replace nozzle if not used for more than 30 seconds.
- >> Nozzle is removed by depressing the yellow ejector located on the top of the INSTA-FLO™ dispenser.
- >> Hold the INSTA-FLO™ dispenser about 20 cm-60 cm away from the area you intend to spray. Note yellow safety on the trigger must be depressed first, unlocking trigger.
- >> Move the INSTA-FLO™ dispenser with a steady back and forth motion when dispensing foam.
- >> Foam will expand and will be tack free within 30 - 90 seconds and is fully cured in five minutes.
- >> It is recommended that foam be applied in layers of 4 cm or less in any single application layer.

*Note:* If the foam is to be injected into a hidden cavity, a test shot is recommended prior to each injection.



## TEMPERATURE

- >> The temperature indicator on the side of the tank shows the temperature of the contents of the tank, not ambient air temperature.
- >> For best results the tank contents should be at 24°C or warmer.
- >> FROTH-PAK polyurethane foam can be applied effectively in cold air temperatures or on cool work surfaces (above freezing) provided the kit contents are at least 24°C.

## DISPOSAL

- >> Open cylinder valve to empty cylinder and fully release pressure.
- >> Once empty, place cylinder in carton and dispose of in compliance with all local and national laws and regulations.
- >> If cylinders are returned to Polymer Insulation Products, please keep original packaging and mention following information on delivery note :
  - Empty packaging - back to producer
  - Lege verpakking - terug naar producent

Empty packagings from product sold by Polymer Insulation Products will be taken back without cost. Product leftover will be removed from the packaging and invoiced per kilo. A detailed note will be sent to the customer.

## TROUBLESHOOTING

- >> If your spray pattern becomes noticeably different, replace the nozzle.
- >> If the foam does not react properly, replace the nozzle.
- >> If the problem persists, remove the nozzle and activate the dispenser into a waste container. Chemical streams must be of equal volume to assure good quality foam. If streams are unequal, a blockage has occurred.
- >> Shut off the tank valve on the side that is flowing properly and activate the trigger full force for 15 seconds.
- >> Once the blockage is freed, turn off all tank valves. Clean any chemical from the face of the INSTA-FLO™ dispenser with a clean rag and reapply petroleum jelly. Insert an unused nozzle, open all valves and dispense a test shot into a waste container.
- >> After curing, check the foam quality. If problems still occur, stop foaming.
- >> Turn off chemical tank valves, eject the used nozzle, and release chemical line pressure by activating the dispenser into a waste container. Slowly loosen the hose connections at the tank valves. Clean chemical from the threads and replace with a new INSTA-FLO™ dispenser/hose assembly.
- >> If the replacement of the INSTA-FLO™ Dispenser/Hose Assembly does not solve the problem, please contact your Polymer Insulation Products representative or your local distributor to seek advice.
- >> 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.
- >> 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.

## STORAGE

- >> Store FROTH-PAK™ polyurethane foam cylinders between 15°C and 25°C in a clean dry area. Protect from sun and temperatures above 50°C.
- >> Partially used kits: Close valves, remove used nozzle, apply petroleum jelly to the INSTA-FLO™ dispenser, and reinsert the used nozzle.
- >> To prevent hoses from clogging if your dispenser has not been used for one week or longer, activate the system for a few seconds by turning on the tank valves and squeezing the trigger fully without nozzle to dispense twin streams into a waste container. This will clear and repressurize the hoses and should be done every week when the system is idle.
- >> Reapply petroleum jelly and reinsert used nozzle for storage.

## TRANSPORT

### >> Shipping Weights

FROTH-PAK 180	17 kg	FROTH-PAK 600 POLYOL	25 kg	Nozzles (25 pcs / bag)	0,5 kg
FROTH-PAK 600 ISO	25 kg	Gun/hose assembly	1,5 kg		

### >> Freight Classification

#### Road & Rail

- Proper shipping name : 3500 compressed gas, n.o.s.
- Contains 1,1,1,2-Tetrafluoroethane
- Truck/Rail ADR : 2
- Label : 2
- Packaging Group : -
- Kemler Code : 20
- UN Number : 3500
- Tremcard Nr. CEFIC : 20G1A

#### Sea

- Proper shipping name : 3500 compressed gas, n.o.s.
- Contains 1,1,1,2-Tetrafluoroethane
- IMCO class : 2.2
- UN Number : 3500
- Label : 2.2
- EMS : 2-04
- Packaging Group : -
- Marine Pollutant : N

#### Air

- Proper shipping name : 3500 compressed gas, n.o.s.
- Contains 1,1,1,2-Tetrafluoroethane
- IATA class : 2.2
- UN Number : 3500
- Label : NFG
- Packaging Group : -
- Pack Instr. Passenger : 200
- Pack Instr. Cargo : 200

## WARNING & FIRST AID

- >> Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
- >> 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.
- >> Inhalation of vapors or mist at concentrations in excess of permissible limits may result in the development of respiratory sensitisation. Skin contact with diisocyanates may play a role in respiratory sensitisation. Once sensitised, a person may experience a hypersensitive reaction when exposed to very low concentrations of diisocyanate. Anyone who has been sensitised in the past should not operate nor be in close proximity to the operation of these systems.
- >> Depending on the potential for exposure some of the following personal protective equipment may be required: Safety glasses, chemical goggles or face shields, gloves, aprons or coveralls, footwear, chemical protective jackets and or pants.
- >> Use only in well-ventilated areas. Keep out of the reach of children.
- >> In case of accident or if you feel unwell, seek medical advice immediately showing label and Material Safety Data Sheet of both components.