



Operating Instructions

Two-part polyurethane system

Meets or exceeds MSHA-listed standards

No special breathing apparatus required

Premium flame-retardant ingredients

Isocyanates less than .65 PPB (ACGIH)



866 Horan Dr., Fenton, MO 63026-2416 USA
1-800-325-6180 | www.touch-n-seal.com



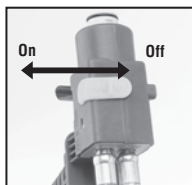
Touch 'n Seal MINE FOAM has been tested and evaluated by MSHA to meet or exceed their strict standards for safety and is listed in the "List of Suitable Sealants for Mine Ventilation Controls" (Stoppings and Overcasts). Formulated for use by the underground mine professional, MINE FOAM is used to control ventilation by sealing air leaks in and around metal, wood and concrete stoppings, overcasts, electrical and plumbing chases, and other areas which may need ventilation control. It can also be used to control water runoff and leaks, to fill voids and to provide sound and thermal insulation. The unique formulation allows for quick and complete cure with strong bonding to a wide range of substrates.

IMPORTANT: Follow all directions. Polyurethane foam is temperature sensitive – failure to follow procedures and temperature guidelines may result in poor performance and could affect foam quality.

PREPARATION AND SET-UP: The area of application should be clean, dry and free of grease, oil and other debris. Check "Must Be Used By" date on carton to ensure product shelf-life has not expired. Temperature of both A and B canister materials must be brought to a minimum of 70°F before use (see Storage section). For best results, temperature of spray environment should be 70°- 80°F. Application in higher or lower temperatures may alter set-up time, cure time, yield, physical properties, interval time between applications and reduce overall foam performance.

1. Wear gloves and safety goggles. Tear off perforated panel at top of carton to access handle. Remove instructions, accessories bag and gun/hose assembly. Position hoses into slots.

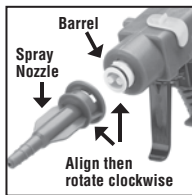
2. Make sure gun is in "OFF" position by pushing trigger lock into gun body. Open tank valves and check connections for leaks. Tighten if needed.



3. Push trigger lock to "ON" and purge gun into waste container to ensure (roughly) even dispensing of A and B chemicals.



4. Lubricate o-ring with lubricant (provided). Attach spray nozzle – align slots with notch on gun, push and twist clockwise to lock in place. Foam should be off-white in color (not white or dark brown – for more information see Troubleshooting section). Carry unit by handle attached to tanks – never lift or pull by hoses.



APPLICATION: Polyurethane foam expands to varying degrees depending on spray rate, temperature and area configuration (see Yield

section). Apply to test area first to determine best approach. Maintain nozzle about two feet away from target area to avoid splattering foam. Follow Mine Ventilation Plan and MSHA requirements for application guidelines. If foam color changes suddenly, stop spraying and check tanks to see if they're empty. For best results, change nozzle frequently. **Note: Foam can cure in nozzle quickly – if system is stopped for more than 30 seconds, change nozzle. Failure to do so may cause gun to clog and render it useless.**



During nozzle changeover, clean and lubricate o-ring and remove any buildup from orifices in gun barrel. **Note: To help product performance in cold spraying environments, you may carefully spray foam inside carton to help maintain the temperature of chemicals in tanks.**

ADHESION: Foam adheres to most substrates except materials such as teflon, silicone and polyethylene. Foam also adheres to itself, allowing layers to build up to desired thickness.

YIELD: Approximately 200 board feet. A board foot represents one square foot of foam at one inch thickness. Yield may be affected by user's technique or environmental temperature. It's important to take expansion rate into consideration before application. Expansion rate is related to spray rate, temperature variations and area configuration.

STORAGE: Ideal temperature for storage and application is 70°-80°F. Never exceed 120°F. Materials may be stored below 70°F; however, temperatures of A and B canister materials must be brought to a minimum of 70°F prior to application. Canisters stored in low temperatures may require more than 24 hours to warm their chemical contents. When storing product for re-use, lock gun "OFF" (do not purge) and remove spray nozzle. Remove any buildup from orifices in gun barrel, and clean/lubricate o-ring. Close tank valves. **IMPORTANT: Spray material once a week for 4-5 seconds to maintain operational integrity of gun/hose system. Use contents within 30 days of initial use. Note: Gun is disposable and not intended for continuous re-use.**

RESTARTING: Make sure trigger lock is in "OFF" position, then open valves and inspect fittings for tightness and leaks. Push trigger lock to "ON", aim gun into waste container, and spray briefly (without nozzle) to purge hoses. Make sure chemicals feed (roughly) even from both tanks. Lubricate o-ring, attach new nozzle and spray foam.

TROUBLESHOOTING: Foam is off-white when system is "ON RATIO". When color changes from off-white to dark brown or pure white, foam is "OFF RATIO" and a tank may be empty or there may be a blockage in either (A or B) component. If tanks are full, check for blockage by removing spray nozzle and dispensing system into waste container. Check both orifices on gun barrel to see that (roughly) equal amounts of material are dispensed. If a blockage is indicated, remove hardened material from orifices. If no blockage is indicated and streams are evenly dispensed,

lubricate o-ring, attach new nozzle and continue application. If problem continues, shut down and call Customer Service at 1-800-325-6180.

DISPOSAL: Do not incinerate tanks. After chemicals have been used, tanks should be vented. This should be done with caution as tanks still contain some pressure. Wear goggles and gloves and vent as follows: Place tanks upside down. Open valves slowly and allow pressure to vent for one hour. Turn tanks upright and drain any remaining chemical into a waste container. Where disposal rules require tanks be punctured, knock out the safety burst plug. Chemical tanks must be disposed of as ordinary industrial waste (sanitary landfill is recommended) in compliance with pertinent regulations. Chemical waste should be neutralized and disposed of as ordinary waste. See MSDS for instructions on handling spills.

CAUTION: May cause skin irritation, eye damage. Heat/combustion releases hazardous decomposition products. Vapor harmful. Contents under pressure. A and B sides must be used together. Contains Polymeric MDI and one or more of the following: Chlorodifluoromethane, Tetrafluoroethane. Do not puncture or incinerate tanks. Do not expose to heat or store in vehicles or warehouses where temperatures may exceed 120°F (49°C). Use only in well ventilated area. Follow all MSHA safety regulations and requirements for ventilation, storage and use. Wear protective rubber gloves, coveralls, head covering, boots, face shield, and safety glasses. Dried foam is hard to remove from skin. If foam dries on skin, apply generous amounts of petroleum jelly or lanolin, leave on for one hour, wash thoroughly and repeat process until foam is removed. Do not attempt to remove cured foam with solvents. In case of eye contact, flush eye with water for 15 minutes and get immediate medical attention. The foam produced is combustible. Do not expose to heat, sparks or open flames. This product is not intended for use in applications where temperatures exceed 250°F (121°C).

KEEP OUT OF REACH OF CHILDREN. NOT FOR USE BY CHILDREN.

For more information consult the Material Safety Data Sheet.

- ASTM E84 Flame Spread 10, Smoke Developed 110
- ASTM E162 Flame Spread Index 4
- One year shelf life

**In case of emergency call Chemtrec
1-800-424-9300**

Limited Warranty: Convenience Products warrants this product to be free from defects. The Company shall not be liable for any consequential or other damage or remedy; its sole obligation and your exclusive remedy are limited to product replacement. Some states do not allow limitations on the exclusive or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights, and you may also have other rights which may vary from state to state. There are no warranties which extend beyond the description on the face hereof. Representatives, distributors and dealers of this product may make no claims or warranties not herein expressed.