

PF-95, PF-96, PF-97 DUCT LINER ADHESIVES SPRAY-GRADE/FLAMMABLE®

R5058

No. 3

UNDERWRITERS LABORATORIES INC.*

CLASSIFIED

ADHESIVE

309U

Surface Burning Characteristics

APPLIED TO INORGANIC REINFORCED CEMENT BOARD*

FLAME SPREAD.....15

SMOKE DEVELOPED.....0

* Tested as applied at a coverage of 450 sq. ft. per gallon

FLASH POINT OF LIQUID ADHESIVE. (CLOSED CUP): BELOW - 10°C (14°F)

SPECIAL CHARACTERISTICS:

- Immediate Tack
- Water Resistant
- Excellent Coverage

- Economical
- No-Cob-Webbing
- Long Open Time

- Proven Field Performance
- Excellent Aging Properties
- Requires no Auxiliary Clamp Devices

DESCRIPTION:

Miracle® PF-95, PF-96, and PF-97 are high performance, quick tack Duct Liner Adhesives specifically formulated for commercial, spray applications; yet can be easily applied with a brush or roller. PF-95, PF-96, and PF-97 provide excellent coverage and professional results. Meets ASTM C916, Type IV, ASC-A-7001A, Type IV and NFPA 90A requirements.

USES:

Miracle® PF-95, PF-96, and PF-97 demonstrate exceptional results when used for the following applications:

1. Spray, Brush or Roller
2. Leading Edge Sealing
3. Laminating Layers of Fibrous Glass
4. Adhering and sealing laps of pipe insulation
5. Bonding urethane foam to sheet metal (apply to metal or foil) and gypsum board
6. Adhering Kraft backed Foil and Foil jacketing to urethane foam (apply to foil).
7. Bonding low and high-density fiberglass insulation to interior/exterior sheet metal, galvanized metal, stainless steel and aluminum air conditioning and heating ducts.
8. Bonding fibrous insulation to concrete, wood, gypsum board and rigid construction materials.

DIRECTIONS:

Surface Preparations: Surfaces should be clean, dry and free from wax, oil, grease, loose and scaly paint, and any other foreign matter that will impair adhesion.

Recommendations: Do not thin adhesive. While being emptied, drums should be grounded and bonded.

Application: Using recommended spray equipment, brush or roller, apply the adhesive to the metal, foil or rigid substrate leaving no bare spots (cover 100% or area to be insulated). Apply insulation 0 to 20 minutes later. (NOTE: Open time may vary depending upon atmospheric and temperature conditions. Certain conditions may cause adhesive to dry quicker than normal. To insure a good bond, make an occasional finger test of the applied adhesive. Adhesive should be sufficiently wet to transfer to your finger).

Suggested Spray Equipment: Binks No. 41-8530 55 gallon drum pogo pump with one of the following:

Binks No. 370 gun with 88 x 88F Nozzle; Binks No. 35 Gun with 83x83S Nozzle-Binks No. 2001 gun with 66 x 66S Nozzle (Note: Consult your local Binks or DeVilbiss Office for the most suitable spray equipment recommended for your application.)

Spraying Instructions: Miracle® PF-95, PF-96, and PF-97 Duct Liner Adhesives have years of proven field performance. A few minutes checking equipment, adjusting pressure performance and fluid flow should result in trouble free operation. While the proper method of spraying the above materials is difficult to specify in hard and fast rules, the following suggestions are helpful:

1. In the two gallon, low pressure spray pot units of either Binks or DeVilbiss, adhesive should be sprayed at pressures from 20 psi to 30 psi, generally using higher air pressure than fluid pressure.
2. The spray equipment designed for large drums of adhesive may be sprayed at higher air pressure. Normally greater productivity and faster tack can be achieved at this higher pressure.
3. Hold spray gun 8" to 12" from surface being sprayed; on open flat work, hold gun 8" to 10" away.
4. If adhesive sprays in globs, clean tip of spray gun with solvent. Dried adhesive around fluid tip or air cap reduces proper atomization of pressure.

**Pratt & Lambert Specialty Products**

75 Tonawanda Street / Buffalo, NY 14207 • Box 1505 / Buffalo, NY 14240

Phone: (716) 873-2770 • Fax: (716) 874-1464 • Customer Service: (800) 875-7005

PF-95, PF-96, PF-97 DUCT LINER ADHESIVES SPRAY-GRADE/FLAMMABLE®

5. Check fluid needle, adjusting screw to insure proper amounts of adhesive is passing through gun.
6. Make sure all parts of equipment are clean and that no parts are worn or damaged. Air caps, rings, and fluid nozzles particularly, must be free of any damage and kept clean. Orifices should be cleaned by soaking in solvents for ten minutes and then freed of adhesive with a soft wire or straw.

Clean Up: To clean tools and remove excess adhesive, use mineral spirits, exercising safe practices.

SERIES/COLOR	SIZE	PACKED	ITEM NO.	SHIPPING WEIGHT
PF-95/Clear	1 gallon can w/handle	4/carton	046	30 lbs./carton
	5 gallon pail	1/unit	047	36 lbs./pail
	54 gal. in open head 55 gal. drum	1/unit	048	381lbs./drum
PF-96/Red	1 gallon can w/handle	4/carton	053	30 lbs./carton
	5 gallon pail	1/unit	054	36 lbs./pail
	54 gal. in open head 55 gal. drum	1/unit	055	381lbs./drum
PF-97/Black	1 gallon can w/handle	4/carton	059	30 lbs./carton
	5 gallon pail	1/unit	060	36 lbs./pail
	54 gal. in open head 55 gal. drum	1/unit	061	381lbs./drum

TYPICAL PHYSICAL PROPERTIES & TECHNICAL INFORMATION

BASE: Synthetic Rubber
SOLVENT: Aliphatic Hydrocarbon
WEIGHT/GALLON: 6.3 lbs.
COLOR: PF-95, PF-96 Red, PF-97 Black
SOLIDS CONTENT: 31.5%
VISCOSITY: 1600 cps. (ASTM D 1084)
APPLICATION TEMPERATURE: 40°F-100°F
SERVICE TEMPERATURE: -30°F - 170°F
WATER RESISTANCE: Excellent
FLASH POINT (WET STAGE): Less than 0°F (ASTM D 3278)
DRY TIME: 24 hours

SHELF LIFE: 18 months
FLAMMABILITY (WET STAGE): Extremely Flammable
DRY FLAME SPREAD: Meets GSA Flame Spread Requirements (tested in accordance with Federal Standard 00136B (COM-S) Class 1)
COVERAGE: Spray-up to 450 sq. ft./gal.
STRENGTH: Adhesive will support insulating materials without auxiliary holding devices.
OPEN TIME: Up to 20 minutes (or up to 45 minutes if both surfaces are coated with adhesive)
STORAGE TEMPERATURE: Room temp. with cross ventilation. OSHA Class 1 B Liquid; store as per CFR 1910.160

CAUTION

DANGER!

EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPORS MAY CAUSE FLASH FIRE. VAPOR HARMFUL IF INHALED. MAY EFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. CAUSES EYE, SKIN, NOSE AND THROAT IRRITATION. CAN CAUSE NERVE DAMAGE TO ARMS AND LEGS, EFFECTS MAY BE PERMANENT.

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

PRECAUTIONARY MEASURES: KEEP AWAY FROM HEAT, SPARKS AND FLAME. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Prevent build-up of vapors by opening all windows and doors to achieve cross ventilation. DO NOT use in basement or any other unventilated area. USE ONLY WITH ADEQUATE VENTILATION. Do not breathe vapors or spray mist. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application unless air monitoring demonstrates vapor/mist levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

FIRST AID: In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get immediate medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapor or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

STORAGE/HANDLING: Keep container closed when not removing adhesive. Do not reuse container or transfer to any other container. Close container after each use.

SPILLAGE: In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations.

EMPTY CONTAINER WARNING: EMPTY containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks or other sources of ignition; they may explode and cause injury or death.

FOLLOW ALL PRECAUTIONS IN THE WORK AREA AND ALL ADJACENT AREAS. BE SURE THAT ALL PERSONS UNDERSTAND AND FOLLOW ALL PRECAUTIONS.

FOR INDUSTRY USE ONLY - NOT FOR HOME OR CONSUMER USE

F#:1240

B2E1

NOTICE TO PURCHASER

Our only obligation shall be to replace or pay for any material proved to be defective. The suitability of the product for an intended use shall be up to the user. You may have other rights which vary from state to state.

Lit #: 94-0065