



Controlled Release Technologies, Inc.

Instructions for Application of Flex Seal

General Use Information

Flex Seal is used for the following purposes:

- Lock down fiberglass fibers from emitting from HVAC insulation. All fiberglass will start to degrade with 5-8 years after installation, emitting fiberglass particulates.
- Lock down asbestos.
- Provide a permanently flexible barrier on top of insulation to prevent the ingress of particles, or the egress of particles. Flex Seal contains a preservative which inhibits the growth of mold and mildew on its surface, and within it.
- Flex Seal is used to successfully coat wood, masonry block, and when primed with any water based primer will also coat galvanized metal.

General Product Characteristics

- Flex Seal is water-based, and is easily cleaned up with water.
- Flex Seal may be stored outside in winter months. Flex Seal may be frozen and thawed up to 5 times with no effect on its performance!
- Flex Seal is a low-odor formulation, and units to which it is applied may be put back into service within only a few hours.

Fire Codes

United States Fire Codes are classified into parts depending upon flame spread and smoke spread of the coating. The most stringent code is the Class 1 Code. To meet a Class 1 Code, the product must be under a Flame Spread of 25 and a Smoke Spread of 25.

Flex Seal is ASTM Certified at a Flame Spread of 0 (Zero) and a Smoke Spread of 5 (Five). It will not support combustion.

Application Techniques

Equipment

Flex Seal is engineered to be sprayed on using a heavy duty airless sprayer. The sprayer should be rated at a minimum ratio of 30:1. The pump should be 2,000 to 3,000 psi, with a pressure at the tip of 800-900 psi minimum. Gallons per minute should be 3/4 or higher.

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Hoses should have a minimum rating of 3,000 psi. A 1/4" inner hose diameter should be used on lengths up to 150 feet.

A high pressure airless spray gun rated for 3,000 psi or greater is the only type acceptable. A reverse-a-clean feature should be incorporated into the spray gun. A spray tip of 0.021 to 0.025 is recommended.

Air type sprayers and diaphragm style sprayers will not work with Flex Seal.

In some instances, the product may be bush applied or roller applied. Older fiberglass insulation will have a tendency to delaminate and come off on the roller so roll onto surfaces which are relatively newer and intact.

Surface Preparation

- All surfaces must be clean and dry, free from dust.
- Wire brush previously painted surfaces to remove any loose chalking material or flaking. For galvanized surfaces, it is recommended that a water based Primer must be applied before applying Flex Seal. Flex Seal may be put on without the primer, and in this case, the galvanized surfaces must be abraded with a "Scotch Brite" type pad and a vinegar solution to adequately prep the surface. After abrading, the surfaces should be rinsed with water.
- All greases, oils, or other contaminations must be removed before application.
- For insulation, lightly vacuuming the surfaces, preferably using a HEPA filter equipped vacuum, is recommended. A negative air pressure is recommended to be maintained in the air duct system or interior HVAC system to avoid dirt and other particles from entering into the rest of the system.

Spray Methods

All applicators must wear standard spraying gear such as goggles, gloves, and a paint respirator. Airless spraying of any type generates paint mist. Care must be taken to not place one's hand in front of the spray nozzle tips.

Coverage

Flex Seal is engineered to be sprayed on at 15-25 wet mils thickness.

(15 wet mils= 7.7 dry)

(25 wet mils= 12.9 dry)

Coverage will be 50-100 square feet per gallon, depending upon surface porosity.

DO NOT THIN FLEX SEAL. DO NOT APPLY WHEN TEMPERATURES ARE BELOW 55 DEGREES F, OR IF OUTDOORS, DO NOT APPLY IN RAINY WEATHER.

Allow 2-5 hours of drying time, depending upon temperature.

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