Johns Manville
A Berkshire Hathaway Company

HVAC INSULATION

LINACOUSTIC® RC-IG

FIBERGLASS DUCT LINER WITH
REINFORCED COATING & PRE-APPLIED ADHESIVE
APPLICATION GUIDE

PRODUCT APPLICATION

For HVAC duct lining applications, LinacouSTIC® RC-IG can be applied to sheet metal duct work with existing coil lines, adhesive roll coating equipment and at hand-stations by replacing traditional duct liner adhesives with tap water application, allowing the product to self-adhere to the sheet metal within seconds!

INSULGRIP ADHESIVE ACTIVATION

The InsulGrip on the adhesive side of LinacouSTIC RC-IG is reactivated by water. Installers can simply wet the dried adhesive on the metal-facing side of the liner with a water mist or a roll-coater. Once moistened, the adhesive will become tacky, and the insulation should be applied to the metal duct surface within 30 seconds. The adhesive will form a secure bond to the metal within seconds, so the material should be carefully placed and repositioning should be avoided if possible. After the insulation has been adhered to the duct, it can be pinned in place. See the data sheet for more information about pinning LinacouSTIC RC-IG.

WATER APPLICATION

Typically, very minimal or no retrofit to existing equipment will be required to apply water. When reactivating the insulation with water, installers should target 10 +/- 0.5 gr./sq. ft. of insulation surface. This is the optimal amount needed to quickly activate the insulation adhesive layer and allow for good initial tack with fast dry time.

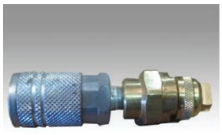
- Using too much water will result in poor tack and long dry time.
- Using too little water will not allow the dry adhesive layer to fully dissolve resulting in poor tack and poor adhesion.
- Water can be applied to the insulation adhesive surface or to the sheet metal surface. Both application options require weld pinning.
- The InsulGrip Adhesive and activating water must be above 40°F for best results. If faster initial tack-up is required, warm or hot water can be used to reactivate the adhesive.
- Drying time will depend on the amount of water applied to activate the adhesive layer and on local air temperature and humidity conditions. The drying time will be similar to most commonly used water-based adhesive.

HAND STATION APPLICATION

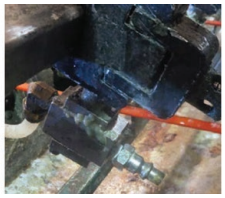
For hand station application, airless paint sprayer equipment can be used to apply water or clean city suppled water (cold or heated) can be used with a garden hose and water mist spray attachment.

COIL LINE APPLICATION

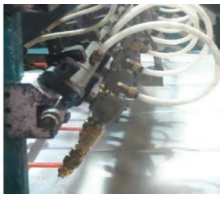
For coil line application, replace the existing adhesive spray nozzles with fine-mist water spray nozzles (pictured below). A suggested nozzle configuration is also shown below. The number of nozzles required will depend on the type of spray nozzle used, the width of the sheet metal to be coated, and the water pressure delivered to the spray nozzles. Some trial and error testing may be necessary to determine the number required along with angle setting and height placement.



Water Spray Tip Assembly



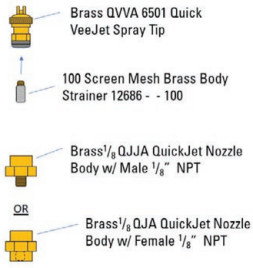
Existing Quick-Connect Fitting



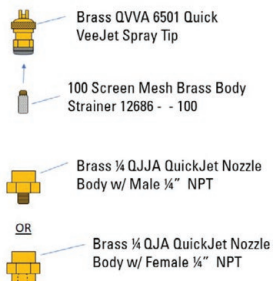
Installed Water Spray Nozzle

Suggested Water Spray Nozzle Configurations

Spraying Systems Co. (spray.com) Spray Tip & Nozzle Body for 1/8" NPT Quick Connects



Spraying Systems Co. (spray.com) Spray Tip & Nozzle Body for 1/4" NPT Quick Connects

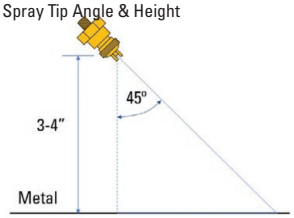


If these exact sizes are not available use the following guidelines:

- For 1/8" fittings any nozzle that provides a 65° fan pattern at around 0.1 gallons per minute.
- For 1/4" fittings any nozzle that provides a 65° fan pattern at around 0.1 gallons per minute.

Suggested Water Spray Nozzle Placement

Spray Tip Angle & Height



Most coil line adhesive systems have water flush capability to clean the adhesive lines and nozzles after each use. The water flush system can also be used to supply clean water to the water spray nozzles if the water pressure is between 40 to 80 psi. If the pressure is below 40 psi, a separate water supply system will be needed, with the possibility of requiring a pump to increase pressure. Note that most cities supply water to customers between 40 to 80 psi.

It also may be necessary to adjust the cycle time of the spray system (On-Off spray time) to ensure complete water coating of the sheet metal while minimizing overspray. Consult the equipment manufacturer for proper cycle time adjustment.



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Technical specifications as shown in this literature are intended to be used as general guidelines only. Please refer to the Safety Data Sheet and product label prior to using this product. The physical and chemical properties of LinacouSTIC RC-IG listed herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Any references to numerical flame spread or smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions.

All Johns Manville products are sold subject to Johns Manville's standard Terms and Conditions, which includes a Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville standard Terms and Conditions or for information on other Johns Manville thermal insulation and systems, visit www.jm.com/terms-conditions or call (800)654-3103.

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