



AMERICAN ROCKWOOL MANUFACTURING, LLC
Manufacturer of Premium Rockwool Products

Insulation * Acoustical * Cryogenic * Horticultural Wools

Rockwool Premium Plus Insulation Installation and Application Guidelines

WALL SPRAY WITH ADHESIVE

PART 1 – GENERAL

1.1 RELATED WORK AND SECTIONS

- A. American Rockwool Manufacturing provides spray applied Mineral Fiber Insulation identified as Rockwool Premium Plus Insulation systems that can be applied at a 4 pcf density using a commercial pneumatic blowing machine.

1.2 **WORK INCLUDED:** Provide all labor, materials and equipment necessary to provide a complete installed application of spray applied Rockwool Premium Plus Insulation

1.3 **QUALIFICATIONS OF APPLICATORS:** All applicators performing the work of this section must be approved by the manufacturer of Rockwool Premium Plus Insulation and shall also have been in business a minimum of three (3) years. Individual installers must have attended training provided by the manufacturer.

1.4 **SAMPLE/MOCK-UP:** If requested, provide individual product samples or provide a product mock-up that will be a representation of the finished installation.

1.5 **MANUFACTURER'S LITERATURE:** Copies of the manufacturer's literature, clearly indicating conditions of acceptance and methods of applications shall be available on site before, and during, the period of installation of work of this section.

1.6 **DELIVERY:** Materials must be delivered to the site in original labeled and unopened packages. Storage and temperature restrictions shall be followed.

1.7 **STORAGE:** Storage and temperature restrictions shall be followed. Materials to be stored on site in a dry place. Rockwool Premium Plus Insulation Adhesive must be kept from freezing at all times.

1.8 ENVIRONMENTAL CONDITIONS

- A. Work in this section shall only be performed under the conditions stated in the manufacturer's printed application instructions.
- B. Sufficient heat and ventilation must be provided at all times during installation and drying of spray insulation according to manufacturer's printed instructions.

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- 1.9 PATCHING: All patching and repairing of sprayed thermal insulation due to cutting by other trades shall be performed under this section and will be paid for by the trade performing the cutting.
- 1.10 PROTECTION
 - A. Provide adequate protection to adjacent surfaces from being sprayed by means of drop cloths or polyethylene sheets with necessary taping.
 - B. Close off and seal any ductwork in areas where Rockwool Premium Plus Insulation is being applied.
- 1.11 MANUFACTURER’S REPRESENTATIVE: Allow the manufacturer’s representative full access to the site.

PART 2 – MATERIALS

- 2.1 MATERIALS
 - A. Material shall be Rockwool Premium Plus Insulation with NO substitutions.
 - B. Adhesive shall be Rockwool Premium Plus Wall Spray Adhesive with NO substitutions allowed.
 - C. Rockwool Premium Plus Insulation will meet the following standard compliances:

PROPERTIES	TEST METHOD	RESULTS
Fire Hazard Classification	ASTM E84	Flame Spread: 0 Smoke Development: 0 Fuel Contribution: 0
Moisture Absorption	ASTM E553	Pass
Thermal Conductivity	ASTM C518	R-Value/inch = 4.14
Mold and Fungus Resistance	ASTM 1338	Pass

PART 3 – EXECUTION

- 3.1 EXAMINATION: Examine all surfaces and conditions to which the material is to be applied. Ensure the surface is adequate to provide a satisfactory application of Rockwool Premium Plus Insulation. Report any deficiencies to the designated authority and manufacturer for approval.



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3.2 PREPARATION:

- A. All surfaces where Rockwool Premium Plus Insulation is to be installed shall be free of oils, loose paint/primers, dust, dirt, foreign materials, etc. These contaminants will create a false bond or staining of insulation. Clean and seal as required. Report unsatisfactory conditions in writing. DO NOT proceed until acceptable conditions are achieved.
- B. All surfaces shall be an acceptable temperature for application (Above 40° F) Report unsatisfactory substrate temperatures in writing. DO NOT proceed until acceptable conditions are achieved.
- C. Perform test spray to verify bond requirements and compatibility of all surfaces to receive installation of Rockwool Premium Plus Insulation.
- D. Project Schedule: Ensure that all electrical wiring, piping, or other items, which will be covered up by the application of Rockwool Premium Plus Insulation, are installed completely prior to the installation of Rockwool Premium Plus Insulation. If this is not possible, consult with manufacturer to identify proper installation techniques to address these areas.

3.3 APPLICATION

- A. Install Rockwool Premium Plus Insulation in strict accordance with manufacturer's guidelines.
- B. Apply Rockwool Premium Plus Insulation in a side to side motion perpendicular to the substrate
- C. Rockwool Premium Plus Insulation Adhesive temperature should be between 60° F - 80° F. Failure to do so could impact yields and product adhesion ratings.

3.4 EQUIPMENT

- A. Fiber blowing Machines: Machine must be capable of generating satisfactory air volume to move the conditioned Rockwool Premium Plus Insulation through the size and length of hose (3" x 150').
- B. The selected machine must be able to produce a product/air volume needed to move the required amount of material (1.5 psi minimum air pressure at the end of 3" x 150' hose).
- C. Operate the fiber-blowing machine in accordance with the manufacturer's instructions.
- D. Adhesive Pumps must be capable of 100 psi with a flow rate to meet the manufacturer's recommended flow rate of .28 gpm utilizing a 3" 2 jet spray nozzle equipped with 4001 stainless steel spray tips with 100 mesh strainers installed inside each tip to prevent clogging.
- E. Proper equipment to adequately heat/cool adhesive to a temperature range of 60 - 80° F. Failure to do so could impact adhesion and desired product yield.

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3.5 CLEAN-UP AND PROTECTION

- A. Remove Rockwool Premium Plus Insulation from surfaces where overspray may have occurred at the end of each workday. Failure to do so will result in increased difficulty once material has properly cured.
- B. Proper protection of any interior conditions is recommended. Removal of protection and cleanup shall take place once all final materials have been installed, including coloring if required.
- C. Proper protection of finished product shall be required. This includes minimizing vibration or traffic for a period of (48) hours to all areas where material was installed.

END OF SECTION