



## Specification for Insulation Attachment with Weather-Tite® One Step™ Foamable Adhesive

### PART 1 GENERAL

This specification is in consideration of a warranted approved insulation system when used over a properly prepared substrate and adhered with ***Weather-Tite One Step Foamable Adhesive***, a highly elastomeric, two component, one step, all purpose foamable adhesive that contains no solvents and sets in minutes.

#### 1.01 SUMMARY

- A. The application involves the installation of ***Weather-Tite One Step Foamable Adhesive***, when utilized to adhere approved rigid insulation boards over approved substrates and structural roof decks.

#### 1.02 QUALIFICATIONS

- A. Contractor must be approved by the membrane manufacturer and be qualified to install the adhesive in accordance with application guidelines. Contractor must be familiar and proficient in the use of all of the application tools as provided by the adhesive manufacturer.

#### 1.03 DELIVERY STORAGE AND HANDLING

- A. Deliver all materials and store in their original unopened containers.
- B. Store all material in a manner which meets all federal, state and local requirements.
- C. Keep temperature of contents between 65° - 85°F (18° - 29°C) 24 hours before use. Do not store in direct sunlight or high temperatures (90°F /32°C and higher).
- D. KEEP OUT OF THE REACH OF CHILDREN. KEEP AWAY FROM HEAT, FLAME OR ANY OTHER SOURCE OF IGNITION. SEE MATERIAL SAFETY DATA SHEETS.

## 1.04 WARRANTY

- A. Warranty will certify the performance of the product and the consistency of its properties. WTT Systems' Premium Adhesion Warranty does not include the condition of the roofing substrate or insulation being adhered. Failure of either is not the responsibility of WTT Systems.
- B. Supply WTT Systems' 10, 15 or 20 Year Premium Adhesion Warranty in accordance with all application requirements and details.
- C. The contractor is to cover damages to the building resulting from damages from failure to prevent water penetration during construction.

## 1.05 SITE PROTECTION

- A. Protect all exposed surfaces and finished walls with a tarp or suitable covering to prevent damage to such areas. The contractor shall assume full responsibility for any damages to finished areas.

## PART 2 MATERIALS

### 2.01 WEATHER-TITE ONE STEP FOAMABLE ADHESIVE

#### A. DESCRIPTION

A highly elastomeric, two component, one step, all purpose, foamable adhesive that contains no solvents and sets in minutes.

#### B. CHARACTERISTICS

Physical State	Liquid
Color	Light Amber
Viscosity	3,200 – 11,000 cPs
Flash Point	>350°F
Tack Free Setup	4-9 minutes

#### C. PACKAGING

4-1.5 L Cartridges/Case  
6 Static Mixing Tips

#### D. STORAGE

1. Shelf life is 12 months in original unopened containers when properly stored.
2. Keep temperature of contents between 65°-85°F (18° -29°C) 24 hours before use. Do not store in direct sunlight or high temperatures (90°F /32°C and higher).

## 2.02 PRIMERS AND SURFACE TREATMENTS

A. ***Weather-Tite Universal Primer:***

An all-purpose water based primer designed for use with the entire *Weather-Tite* line of products. It does not require mixing and will act as a film former that will enhance adhesion to most surfaces. Consult WTT Systems' Technical Department to see if Primer is necessary.

B. ***Weather-Tite Surface Treatment:***

A spray, brush or roller applied material, specially developed for use with the *Weather-Tite* line of products. For use when bonding to difficult substrates such as plastic films, smooth surface APP modified membranes or fresh non-oxidized (glossy surfaced) asphalt or coal tar. Consult WTT Systems' Technical Department to see if Surface Treatment is necessary.

**\*Solvent based primers are not to be used with *Weather-Tite One Step Foamable Adhesive*.**

## 2.03 TOOLS AND EQUIPMENT

A. The following equipment is approved for use when installing ***Weather-Tite One Step Foamable Adhesive***.

1. Multi-bead Plus Applicator (13 bead capability)
2. Multi-bead Applicator (4 beads)
3. Battery Powered Single Bead Applicator
4. Pneumatic Single Bead Applicator
5. Stand Up Single Bead Applicator
6. Ultra Drive Manual Single Bead Applicator
7. Heavy Duty Manual Single Bead Applicator

## PART 3 APPLICATION

### 3.01 SURFACE PREPARATION

- A. Surfaces to receive the ***Weather-Tite One Step Foamable Adhesive*** should be clean, dry, free of dirt, dust, debris, oils, loose and/or embedded gravel, un-adhered coatings, deteriorated membrane and other contaminants that may result in a surface that is not sound or is un-even.
- B. Any existing coating, which cannot be removed, must be tested prior to the application to insure compatibility with the ***Weather-Tite One Step Foamable Adhesive***.

### 3.02 PRIMING

- A. **Weather-Tite Universal Primer** or **Weather-Tite Surface Treatment** may be required when adhering to certain substrates; please contact WTT Systems' Technical Department for guidelines.
- B. Primer or Surface Treatment should be allowed to fully dry prior to the application of **Weather-Tite One Step Foamable Adhesive**.

### 3.03 SUBSTRATES & INSULATIONS

- A. Listed below are a list of acceptable substrates and insulations for the **Weather-Tite One Step Foamable Adhesive**. Please contact WTT Systems' Technical Department for additional information.
  - 1. Substrates
    - a. Structural roof decking: concrete, gypsum, cementitious wood fiber (tectum), lightweight insulating concrete, wood, or steel.
    - b. Base sheets: sanded or granuled surface modified bitumens.
    - c. Approved insulations: in a multi-layer application.
    - d. Built up roofs: smooth or gravel surface BUR's including coal tar pitch.
  - 2. Insulations (4'x4')
    - a. High Density Wood Fiber
    - b. Polyisocyanurate
    - c. Expanded and Extruded Polystyrenes
    - d. Gypsum Boards (4'x8' may be acceptable, contact WTT Systems' Technical Department)
    - e. Asphaltic Coverboards
    - f. Perlite (Minimum ¾")

### 3.04 INSTALLATION

- A. Surfaces to receive the **Weather-Tite One Step Foamable Adhesive** should be clean, dry, free of dirt, dust, debris, oils, loose and/or embedded gravel, un-adhered coatings, deteriorated membrane and other contaminants that may result in a surface that is not sound or is un-even.
- B. Application rates shall be determined for project, taking into consideration substrate, insulation type, warranty requirements as well as size, height and location of building.
- C. Size, complexity, accessibility and adhesive application rate for project, will help in determination of which adhesive applicator should be used.
- D. Protect and permanently store all materials in a dry, well-vented and weatherproof location. Only materials to be used the same day shall be removed from this

location. Remove only enough material as needed for immediate use. Keep materials away from open flame or welding sparks. Keep temperature of the **Weather-Tite One Step Foamable Adhesive** between 65° - 85°F (18° - 29°C) 24 hours before use. Do not store in direct sunlight or high temperatures (90°F /32°C and higher).

- E. With a utility knife, remove the molded tips at the groove from the One Step Mixing Head. Attach a One Step Mixing Tip to the Threaded Mixing Head. Place the prepared cartridge into the required One Step Applicator.
- F. Apply the **Weather-Tite Foamable Adhesive** directly to the properly prepared substrate using a ribbon pattern. Typically this pattern will be 12" o.c.; however, project requirements may dictate a tighter bead spacing. Space the ¼" to ½" wide beads accordingly to achieve proper coverage rates for insulation attachment.
- G. As adhesive is applied, immediately place insulation board (maximum 4' x 4') into wet adhesive. **Do not allow adhesive to skin over.** Eliminate un-even surfaces to ensure positive contact between the insulation board and the substrate.
- H. All coverage rates are approximates and do not account for spillage, waste or irregular surfaces. Actual coverage rates may vary with application technique and temperature.

### 3.05 CLEANING

- A. Remove uncured materials with a clean soft rag, if material has set, scrape off material with a flat sharp tool (utility knife, sharp putty blade, ect.).
- B. Remove all used containers and wrappings from the site.
- C. Dispose in approved location and manner.