



# GreatSeal

## LT-100 Liquid Tape

### **PART 1: GENERAL**

#### **1.01 Description of Work**

- A. GreatSeal LT-100 Liquid Tape is a polyether based, moisture curing, elastomeric, vertical seam sealer. It forms a water-tight seal until an air barrier system or other covering is applied.

#### **1.02 References**

- A. The incorporation of LT-100 into the project allows compliance to International Energy Conservation Code (IECC) mandatory requirements to seal the building envelope (seal all joints between construction material) (Section 502.4.3), mandatory Air Leakage control (Section 502.4) and mandatory Moisture Control (Section 502.5).

#### **1.03 Quality Assurance**

- A. Perform Work in strict adherence to STS Coatings's instruction
- B. Maintain one (1) copy of application instructions on job site
- C. Allow access to the Work by the STS Coatings's representative
- D. Components used in this section shall be obtained from a single distributor
- E. With 7 days notice a pre-job conference is to convene prior to commencing the Work
- F. Mock up: as directed by the architect and it may remain as part of the Work

#### **1.04 Product Storage And Handling**

- A. Deliver materials to the job site in undamaged and original packaging.
- B. Store materials on end and in original packaging and above 40°F. Keep away from all flame or excessive heat

#### **1.05 Job Condition**

- A. Work is to be performed only in climatic conditions stipulated by manufacturer which are normally 40°F and rising with a maximum Relative Humidity of 80%. No application in the presence of dew, fog or when rain is forecast within 12 hours.
- B. All preparation work must be complete prior to application of LT-100 Liquid Tape.

### **PART 2: PRODUCTS**

#### **2.01 Physical Properties**

- A. Viscosity: non-slump, gun grade mastic, 750,000 cps @ 72°F
- B. Skin Over Time: 25 minutes. @ 72°F 40% RH
- C. Set time (60mil film): 1 hour @ 72°F 40% RH
- D. Appearance: lightly textured, distinctive blue color
- E. Density: specific gravity = 1.1 or (8.0# / gallon)
- F. Durometer: 27 Shore A
- G. Odor: mild mint ester
- H. VOCs: 15.7 gr/liter
- I. Solids: 100%
- J. Exposure: 6 months

#### **2.02 Test Results:**

- A. Hardness, ASTM D-2240: 27 Shore A
- B. Tensile, ASTM D412/C1135: 160 psi
- C. Tensile @ 50% Elongation, ASTM C1184: 75 psi
- D. Tensile @ 100% Elongation, ASTM C1184: 115 psi
- E. Elongation, ASTM D412/C1135: 200%
- F. Tear Strength, ASTM D624: 3.4# (Type T)

- G. Shear Strength, ASTM C961: 140 psi
- H. Peel Strength 1, ASTM C794: 3.75 pli
- I. Peel Strength 2, ASTM C794: 4.5 pli
- J. Joint Movement Capability, ASTM C719: 12.5%

## **PART 3: EXECUTION**

### **3.01 Examination**

- A. Verify that surfaces and conditions are ready to accept the Work of this section. Follow all manufacturer instructions on acceptability of substrate.

### **3.02 Preparation**

- A. All surfaces to be sealed must be clean and dry.
- B. Surface must be hand dry. Apply at temperatures between 40°F and 120°F. It must be applied before the air barrier coating.
- C. Do not apply over an air barrier coating or other functional coating without first testing adhesion.

### **3.03 Installation**

- A. GreatSeal LT-100 Liquid Tape is a one component ready to use material that requires no mixing or preparation.
- B. Use a quality caulking gun to ensure ease of application.
- C. Application shall occur only when temperatures are above 40 degrees F and inclement weather is not predicted.
- D. Cut the plastic nozzle at a 45 degree angle.
- E. Begin gunning the material filling the joint from the bottom to the surface ensuring there are no voids or air pockets in the joint.
- F. Applied in a 1/4" bead.
- G. Tool to 3/4" by 1/16" cap seal that becomes tack free in twenty minutes.
- H. It cures to a firm rubber seal in one hour.
- I. For best finishing performance do not allow un-tooled beads to stand for more than ten minutes.

### **3.04 Protection of Sealed Joints**

- A. These materials are not meant for permanent exposure: 6 months maximum.

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