

## ITW TACC – ULTRASEAL GREEN Guide Specification

### SECTION 233347

#### FLEXIBLE DUCT SEALANT

#### PART 1 - GENERAL

##### 1.1 SUMMARY

- A. This Section includes flexible duct sealant.

##### 1.2 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Certificates:
  - 1. GREENGUARD Children & Schools.
  - 2. GREENGUARD Indoor Air Quality.
  - 3. SCAQMD (South Coast Air Quality Management District), Rule 1168.
  - 4. California Air District Regulations.
  - 5. Ozone Transport Commission (OTC) model Rule for Adhesives and Sealants.
  - 6. SMACNA Seal Classes A, B, C.
  - 7. UL 181B-M.

##### 1.3 REGULARY REQUIREMENTS

- A. SCAQMD (South Coast Air Quality Management District), Rule 1168.
- B. California Air District Regulations.
- C. Ozone Transport Commission (OTC) model Rule for Adhesives and Sealants.

#### PART 2 - PRODUCTS

##### 2.1 MANUFACTURERS

- A. Flexible Duct Sealant:
  - 1. Ultraseal Green manufactured by ITW TACC (Basis of Design).
    - a. 56 Air Station Industrial Park, Rockland, MA 02370.
  - 2. Or equal.

## 2.2 FLEXIBLE DUCT SEALANT

- A. Description: Fibrous interior/exterior-grade sealant used in the fabrication, sealing and coating of UL 181B Flexible Air Ducts. Highly resistant to mold, mildew, water, extreme temperature changes and aging, and is resistant to oil or grease and mildly resistant to alkalis and acids.
- B. Physical Properties:
1. Base: Synthetic, elastomeric emulsion.
  2. Solvent: Water.
  3. Odor:
    - a. Wet: bland.
    - b. Dry: odorless.
  4. Color: Gray.
  5. Weight: 11.83 lb/gallons.
  6. Solids Content: 70.2%.
  7. Viscosity: Thixotropic.
  8. Coverage: 100-125 sq ft/gallon.
  9. Temperature Ranges:
    - a. Application: 35°F to 120°F.
    - b. Service: -40°F to 250°F.
    - c. Storage: Store between 40°F and 110°F. Protect from freezing.
  10. Freeze Thaw: Stable through 4 freeze/thaw cycles.
  11. Pressure Rating: 15" water column.
  12. Time to Pressure Test: 24 Hours.
  13. Shelf Life: 12 months from date of manufacture in unopened container.
  14. Clean Up: Wet: warm water and soap; Dry: mineral spirits.
  15. Sizes: 20 lb pail, 10 lb pail 10.6 oz cartridge.
- C. Certification:
1. GREENGUARD Children & Schools Certified.
  2. GREENGUARD Indoor Air Quality Certified.
  3. Meets SMACNA Seal Classes A, B, C.
- D. Listed by Underwriters Laboratories Inc.:
1. 181B-M Listed MH18700 (181B-M – mastic closure systems for use with flexible air ducts 2R59):
    - a. Classified: Adhesive R-6891 UL 723 Classified (ASTM E-84).
    - b. Surface burning characteristics applied to inorganic reinforced cement board.
    - c. Flame Spread: 0.
    - d. Smoke Developed: 0.
    - e. Tested as applied in a 2 in. wide strip, at a coverage rate of 125 sq ft/gallon. Flash point of liquid adhesive; closed cup; no flash to boiling.
- E. Contributes to LEED and other green building rating system credits:
1. LEED-NC and LEED-CI EQ Credits 3.2 and 4.1, and ID Credit 1.1-1.4.
  2. LEED for Schools EQ Credits 3.2 and 4, and ID Credit 1.1-1.4.
  3. LEED for Homes MR Credit 2.2 Environmentally Preferable Materials.
  4. LEED Core & Shell EQ Credit 4.1 and ID Credit 1.1-1.4.
  5. LEED-EB MR Credit 3.
  6. CHPS (Collaborative for High Performance Schools) EQ Credit 2.2.

7. Green Guide for Health Care EQ Credit 4.1.
8. NAHB Model Green Home Bldg Guidelines – Sect 7, Global Impact 7.1.3.

### PART 3 - EXECUTION

#### 3.1 APPLICATION, GENERAL

- A. Comply with sealant manufacturer's written instructions for installation.

#### 3.2 SEALANT APPLICATION

- A. Sealing UL 181B Air Ducts: Apply to clean, dry surface, free of dirt and grease. Using a brush or trowel apply a 3 inch wide band of mastic around the collar at a coverage rate of 125 sq ft/gal.
- B. Sealing Metal Ducts: Apply by brush or trowel. Surfaces should be free of dust, oil or grease.

END OF SECTION 233347