

ITW TACC – GLENKOTE SEALFLEX Guide Specification

SECTION 233363

DUCT SEALANT

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes 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 (City of Los Angeles Approved: RR7988).
- C. Ozone Transport Commission (OTC) model Rule for Adhesives and Sealants.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

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

2.2 DUCT SEALANT

A. Description:

1. Water based sealant/mastic UL 181-B certified. Designed for indoor and outdoor use on all conventional high, medium, or low pressure or high velocity - metal, fiberglass and flexible heating and air conditioning duct systems.
2. Can also serve as mending or patching membrane for repair.

B. Advantages:

1. When cured, impervious to gasoline, oil, grease, weak acids and alkalis.
2. Easily applied.
3. Forms permanent, flexible seal.
4. Highly resistant to effects of temperature changes.

C. Physical Properties:

1. Base: Synthetic Polymer.
2. Solvent: Water.
3. Solids: 58.0 +/- 2.0%.
4. Weight/Gallon: 9.98 lbs/gallon.
5. VOC Content: 65.5 g/L (EPA Method 24).
6. Shelf Life: 12 months, unopened.
7. Viscosity: 190,000-210,000 cps.
8. Flashpoint: N/A.
9. Open Time: 1 hour.
10. Dry Time: 24-48 hours.
11. Color: Ivory.
12. Coverage: 80-100 sq feet/gal depending on application, engineering requirements, and porosity of substrate
13. Formaldehyde: No urea formaldehyde added during sealant manufacturing.
14. ASTM C-411 Hot Surface Performance of High Temperature Thermal Insulation: After 96 hours @ 250 degrees F, no cracking peeling, chalking or other signs of physical failure.
15. ASTM C-732 Aging Effects of Artificial Weathering on Latex Sealants: After 500 hours, no change in the product.
16. ASTM D-2202 Slump Test: 0.0 inches.
17. Meets requirements of NFPA 90A and 90B.

D. Listed by Underwriters Laboratories Inc.:

1. 181B-M 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: 5.
 - d. Smoke Developed: 5.
 - e. Tested as applied at a coverage rate of 80 sq ft/gallon. Flash point of liquid adhesive; closed cup; no flash to boiling.

E. Certification:

1. GREENGUARD Children & Schools Certified.
2. GREENGUARD Indoor Air Quality Certified.
3. Meets SMACNA Seal Classes A, B, C.

- F. Contributes to LEED and other green building rating system credits:
 - 1. LEED-NC and LEED-CI EQ Credit 4.1.
 - 2. LEED for Schools EQ Credit.
 - 3. LEED Core & Shell EQ Credit 4.1.
 - 4. LEED-EB MR Credit 3.
 - 5. CHPS (Collaborative for High Performance Schools) EQ Credit 2.2.
 - 6. Green Guide for Health Care EQ Credit 4.1.
 - 7. 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.
- B. Thoroughly mix, taking care to scrape sides and bottom of container before application.
- C. Do not add water. To reduce viscosity, stir thoroughly.
- D. Close container after each use.
- E. Use a good remover to prepare a clean surface, free from grease, oil and dirt.
- F. Loose particles and scale shall be removed with a wire brush.
- G. Material may be applied with a brush, roller, trowel or putty knife. Clean tools immediately with water.

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 100 sq ft/gal (26 mils WFT).
- B. Sealing Metal Ducts: Apply by brush or trowel. Surfaces should be free of dust, oil or grease.

END OF SECTION 233363