SECTION 07 92 25 - SEALANTS AND CAULKING FOR STEEL RESERVOIRS

This version is the most current version of the specification, October 2015. Note specified products and manufacturers are constantly in flux and in need of update.

Some of the paragraphs may be deleted. When deleting, do not renumber all the paragraphs. Simply leave the section number and title as is, delete the text, and add the words "Not Used".

PART 1 GENERAL

1.1 SUMMARY

A. This Section includes the work necessary to furnish and install sealing or caulking joints between dissimilar materials for watertight seal. In particular, work includes sealing the joint between the exterior floor the tank and the top of the existing reinforced concrete foundation.

B. Section includes:

1. Sealants
2. Filler gaskets
3. Primers and bond breakers

C. Related Sections:

1. Section 33 16 23 – Ground-Level Welded Steel Water Storage Tanks

1.2 DEFINITIONS

A. Sealants: Where the words "sealants" or "caulking" are used in this text, they shall be considered to be synonymous and shall mean sealant or caulking compounds as specified under Part 2 of this specification.

1.3 SUBMITTALS

A. Section 01 33 00, Submittal Procedures: Requirements for submittals.

B. Product data and materials list of items proposed to be provided under this Section.

C. Sufficient technical data to demonstrate compliance with the specified requirements.

PART 2 PRODUCTS

2.1 MATERIALS

A. Type A Sealant

1. Application: Joint between steel reservoir reinforced concrete ring wall foundation and exterior steel floor and wall connection.

2. Material: One component polyurethane sealant.

   a. Dymonic 100, as manufactured by Tremco Commercial Sealants & Waterproofing.

   b. Approved equal.

B. Filler Gasket (Backer Rod) Cord Strip

1. Sonolastic Closed-cell Backer Rod, as manufactured by Sonneborn.

2. Equal, as approved by Engineer.

PART 3 EXECUTION

3.1 PREPARATION

A. Surfaces to receive caulking materials shall be thoroughly clean and free of any non-compatible primers or protective coatings, including lacquers, form coatings, clear sealers, etc.

B. Brush out all foreign matter and loose particles.

C. Clean metal surfaces with solvents and wipe dry while the surface is still wet with solvent.

3.2 INSTALLATION

A. Primers and Bond Breakers

1. Apply to surfaces as required; verify with Manufacturer.

2. In general, prime all concrete and Portland cement-based plaster or grout surfaces.

3. Use proper type primers and bond breakers, apply per Sealant Manufacturer's printed instructions.

B. Sealants

1. Provide watertight caulked joints at all building exterior locations where possible water penetration through joint may occur.

2. If caulking systems for such joints are not shown, provide as specifically approved.

C. Gaskets or Fillers

1. Compress all gaskets to tight fit. Where required as backing for caulking system, roll or stretch in gasket sections to depth from sealant face or as shown (in general, to 3/8-inch).

2. Install gun grade material with gun nozzle of similar size as joint width as shown. Tool all beads, after application to assume full firm contact. Strike off excess material.

3. Maintain edge surfaces adjacent to joints clean and free of caulking stain and excess material. Trim joints as required per Manufacturer's printed instructions.

4. Do not apply caulking materials to a “bleeding” type of surface, such as asphaltic or other oil-emitting types. Where such material occurs at caulking joint (roofing, etc.), isolate from caulking with gasket filler.

5. Avoid mixing any water in caulking mixture before and during application. Do not thin material.

3.3 CORRECTIONS AND CLEANUP

A. Remove all damaged, defective, or improperly installed sealant and/or caulking and replace.

B. Clean and remove all sealant and caulking from adjacent surfaces.

C. Upon completion of the work, remove all disused implements, rubbish, and debris, and leave premises neat and clean.

END OF SECTION