

SECTION 07900 - JOINT SEALERS

PART I - GENERAL

1.01 QUALITY ASSURANCE

- A. Applicator Qualifications: Applicator shall have a minimum of 5 years experience successfully installing sealants,
- B. Compatibility; Applicator shall be responsible for verifying that sealants used are compatible with joint substrates.
- C. Guarantee; Sealant joints shall be guaranteed against adhesives and cohesive failure and water penetration through the sealed joint for 5 years.
- D. Apply sealants in strict compliance with manufacturers instructions.

PART II PRODUCTS

2.01 SEALANTS

- A. Extreme Movement Sealants (+100% or -50% movement capability)
  - 1. Vertical/horizontal joint, such as expansion joints; use reference #S-6.
- B. Significant Movement Sealants (+25% or -25% movement capability)
  - 1. Vertical or inclined joints such as panel, coping, expansion, and sloped pavement; use reference #S-1, 3 or 6.
  - 2. Horizontal joints not exposed to fuel or gas spillage; use reference #S- 1, 2,3,4,6 or 7.
- C. Minimal Movement Sealants (+25% or -25% movement capability)
  - 1. Vertical or inclined joints such as perimeters of doors, windows, wall penetrations; use reference # S- 1, 3,4, or 6.
  - 2. Horizontal joints not exposed to fuel or gas spillage; use reference # S-2, or 5.
- D. Interior Sealants and Caulking
  - 1. General; use reference # C-1.
  - 2. Special
    - a. Toilet rooms; use reference #S-8.

2.02 REFERENCE NUMBERS

REF #	ASTM SPEC	FED. SPEC	PRODUCT DESCRIPTION
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S = Sealant

S-1	C-920-02 Type M Class 25 Grade NS		- Two component, non-sag, - Polyurethane or Polysulfide sealant - Shore A hardness of 20-40 - Joint movement range of +/-25%
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S-2	C-920-02 Type M Class 25 Grade P		- Two component, self leveling, polyurethane or polysulfide sealant - Shore A hardness of 25-40 - Joint movement range of +/-25%
S-3	C-920-02 Type S Grade 25 Grade NS		- Low modulus, one component, non-sag, polyurethane or polysulfide sealant - Shore A hardness of 15-25 - Joint movement range of +/-50% - Minimum elongation of 700%
S-4	C-920-02 Type S Class 25 Grade NS		- One component, non-sag, polyurethane or polysulfide sealant - Shore A hardness of 25-40 - Joint movement range of +/-25%
S-5	C-920-02 Type S Class 25 Grade P		- One component, self leveling, polyurethane or polysulfide sealant - Shore A hardness of 15-45 - Joint movement range of +/-25%
S-6	C-920-02 Type S Class 25 Grade NS	TT-S-001543(a) and/or TT-S-00230 Class A	- Low modulus, one component, non-sag, neutral cure, silicone sealant - Shore A hardness of 15-20 - Joint movement range of +100% to -5 0% - Joint size may be as little as two times joint movement - Minimum elongation of 1200%
S-7	C-920-02 Type S Class Grade NS	TT-S-001543(a) and/or TT-S-00230 Class A	- One component, neutral cure, non-sag, silicone sealant - Shore A hardness of 25-30 - Joint movement range of +/-25%
S-8	C-920-02 Type S Class 25 Grade NS	TT-S-001543(a) and/or TT-S-00230 Class A	- One component, non-sag, mildew resistant silicone sealant - Shore A hardness of 25-30

C = Caulking

C-1	C-834-76	N/A	- One component acrylic latex caulking minimum 75% recovery per ASTM C-736-00 - Maximum joint movement of +/-7.5%
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2.03 PRIMER

- A. Provide type recommended by sealant manufacturer for project conditions.

2.04 BACKER ROD

- A. Open or closed cell (non-gassing) polyethylene or polyurethane as recommended by sealant manufacturer.

1. Closed cell or closed skin open cell backer rods shall be used within EIFS joints.

## PART III EXECUTION

### 3.01 INSTALLATION

- A. Apply where dissimilar material abut.
- B. Clean joints to eliminate all detrimental substances.
- C. Install joint filler and backing without gaps between ends.
- D. Prevent 3 sided bonding within the joint. Use bond breaker tape as recommended by sealant manufacturer if needed.
- E. Sealant depth shall be  $\frac{1}{2}$  of joint width with a minimum depth of  $\frac{1}{4}$ " and a maximum of  $\frac{1}{2}$ " unless otherwise required by the sealant manufacturer.
- F. Do not install sealant on damp, dirty or oily surfaces. Do not install sealant when temperatures are below 40°F unless specifically allowed by manufacturer's instructions.
- G. Color: Sealant color shall match the color of the materials at each side of the joint. If materials change along the length of a continuous joint, the color shall change to match the surrounding materials. When materials differ on each side of the joint, install as follows. For combinations not listed below, consult Walgreens Project Architect.
  - 1. Masonry and Storefront Systems; match storefront.
  - 2. Masonry and Hollow Metal; match hollow metal final finish.
  - 3. Masonry and Prefinished Metal; match prefinished metal.
  - 4. Horizontal Concrete and Masonry; match concrete.
  - 5. EIFS/Plaster and Masonry; match EIFS/Plaster.

### 3.02 CLEANING AND PROTECTION

- A. Clean off excess sealants or smears adjacent to joints without damaging adjacent surface or finishes.
- B. Protect sealants from damage and contaminants until fully cured. Damaged or contaminated sealants shall be cut out and replaced.

END OF SECTION

