

07 90 00 Joint Protection

Revision 01/04/2019

Purpose:

The Architect and/or Engineer shall incorporate the Rice specific requirements indicated in this standard's section into their design. The Architect and/or Engineer shall further produce project specifications in line with industry standards that are updated to reflect these Rice specific requirements.

1. General requirements

- a. All sealant installations must be performed in accordance with technical publications of SWRI; the FGMA Sealant Manual published by GANA; ASTM C1193; and the sealant manufacturer's written recommendations.
- b. Contractor must perform sealant field adhesion testing on all substrates immediately after receiving notice to proceed. Perform testing in accordance with ASTM C1521.
- c. For all porous joint substrates (where sealant staining may occur), contractor must submit sample of each substrate to sealant manufacturer for laboratory testing for adhesion and compatibility. Allow adequate time for testing (typically over 30 days) prior to commencement of production work.

2. Acceptable Sealant Products:

- a. Vertical Building Joints with Concrete, Brick, Natural Stone, Cast Stone, Masonry, and/or Metal substrates:
 - i. General Electric (GE) SCS9000 SilPruf NB silicone sealant, Dow Corning DC 795 silicone rubber sealant, or Rice approved equal.
 - ~~ii.~~ Use manufacturer-recommended primer on all substrates receiving new sealant.
 - ~~iii.~~ Backer rod: Bi-cellular foam backer rod complying with ASTM C1330, Type B. Provide range of sizes to ensure that installed backer rod is compressed 25 percent of joint width.
- b. Wet-Glazing Sealants (Glass-to-Metal Interface):
 - i. General Electric (GE) SCS9000 SilPruf NB silicone sealant, Dow Corning DC 795 or DC 995 silicone rubber sealant, or Rice approved equal
- c. Horizontal Joint Sealants (paver joints, concrete flatwork, etc.):
 - i. Self-leveling polyurethane sealant.
 - ii. Silicone rubber sealant (where horizontal joints are not subject to high-heel traffic).
 - iii. Use manufacturer-recommended primer on all substrates receiving new sealant.
 - iv. Backing Materials: as recommended by sealant manufacturer for specific applications.