Design Guideline 079200
Joint Sealants

Scope

Material and installation requirements for Joint Sealants.

VOC content of joint sealants.

Related Sections

U-M Design Guideline Sections:
SID 4.2 Building Envelope

U-M Master Specification Sections:
8.1 079200 – Joint Sealants (A digitally accessible version is pending; please email AEC-Digital Accessibility Support if assistance is needed)

Reference Documents:
South Coast Air Quality Management District (SCAQMD) Rule 1168, Adhesive and Sealant Applications

Design and Installation Requirements

General Design Requirements

For each joint, select products with a performance rating which matches the anticipated location, use and design movement of the joint. Detail joints with appropriate backing so that sealants will perform as designed.

To ensure proper adhesion in critical joints, specify pre-construction adhesion testing by a certified independent laboratory. Specify primers when necessary to attain proper adhesion to the substrate.

For joint sealants within the weatherproofing envelope specify low-VOC products complying with SCAQMD Rule 1168.

- If the project is expected to encounter extreme temperature and/or humidity conditions, verify whether low-emitting sealants will meet the project's performance requirements. When an exception to the use of low-emitting sealants is proposed, describe in writing the reasons why low-emitting products will not perform adequately.

Provide a Joint Sealant Schedule which lists products for each type of joint, in addition to backing and primers, if required.

Provide details, minimum 3"= 1'-0" scale for each type of building envelope enclosure sealant joint and condition. Termination of vapor retarders and air barriers shall be included.

Fireproofing Joint Sealants

All joints in fire rated construction shall be detailed with a UL Design Number which matches the surrounding construction and the required rating.