	Title: YALE OFFICE OF FACILITIES PROCEDURE MANUAL Chapter: 01 - Yale Design Standard Division: 07 00 00 Thermal and Moisture Protection	Section: 07 90 00 Requirements for Joint Protection
		Date: December 2023
		Author: Office of Facilities

PART 1 - INTRODUCTION

1.1 PURPOSE

This section contains general design criteria for joint sealers.

PART 2 - GENERAL DESIGN REQUIREMENTS

2.1 SYSTEM DESIGN AND PERFORMANCE REQUIREMENTS

Provide sealants at the intersection of building components—or as part of a system—of a type that will seal the joint properly and that is compatible with the materials to be sealed


2.2 SUBMITTALS

Warranties must include the labor and materials required to replace sealants that fail because of loss of cohesion or adhesion, or that fail to cure.

2.3 PRODUCT STANDARDS

Interior products must conform to the following standards:

- A. ASTM C790 – Recommended Practices for Use of Latex Sealing Compounds
- B. ASTM C804 – Recommended Practices for Use of Solvent – Release Type Sealants
- C. ASTM C834 – Latex Sealing Compounds
- D. ASTM C920 – Elastomeric Sealant
- E. ASTM C1193 – Standard Guide for Use of Joint Sealants

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2.4 MANUFACTURERS

Subject to compliance with the design requirements, manufacturers offering products that may be incorporated in the work include, but are not limited to, the following.

- A. Pecora Corporation
- B. Sonneborn Building Products
- C. Tremco • Dow Corning Corporation
- D. General Electric Company
- E. United States Gypsum
- F. EM-Seal Corporation
- G. Illbruck Corporation

2.5 MATERIALS

Table 1. Sealants

Sealant	Description	Location	Products
SLNT-1	Two-component, non-sag, polyurethane with movement capability of ± 50 per cent. Conforming to ASTM C920, Type M, Grade NS, Class 25 non-staining.	Concrete construction, expansion, and contraction joints. Exterior wall joints and control joints. Perimeter of storefront, door frames, and louvers. Miscellaneous exterior caulking and sealing.	<ul style="list-style-type: none"> • Pecora Dynatrol II • Sonneborn Sonolastic NP2 • Tremco Dymeric
SLNT-2	Self-leveling, two component, non-staining, non-bleeding polyurethane with movement capability of $\pm 25\%$. Conforming to ASTM C920, Type M, Grade P, Class 25.	Concrete construction, expansion, and contraction joints. Exterior wall joints and control joints. Perimeter of storefront, door frames, and louvers. Miscellaneous exterior caulking and sealing.	<ul style="list-style-type: none"> • Pecora, Dynatrol II • Sonneborn Sonolastic NP2 • Tremco Dymeric
SLNT-3	Silicone sanitary sealant, ASTM C920, Type S, Grade NS. Mildew resistant.	Joints between plumbing fixtures and walls. Joints surrounding plastic laminate vanities and counter tops, fixtures, and equipment requiring sanitary sealant.	<ul style="list-style-type: none"> • Dow 786 mildew resistant silicone sealant • GE 1700 Sealant • Sonneborn Omniplus


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Table 1. Sealants(Continued)

Sealant	Description	Location	Products
SLNT-4	Acoustical sealant; non-hardening, non-skinning acoustical sealant for concealed joints.	Joints at sound-proofed partitions.	<ul style="list-style-type: none"> • Tremco acoustical sealant • USG acoustical sealant
SLNT-5	One part, non-sag, skinning, paintable, acrylic latex sealant capable of $\pm 7.5\%$ minimum movement.	Miscellaneous interior and exterior joints subject to moderate movement and joints to be painted.	<ul style="list-style-type: none"> • Pecora AC-20 siliconized • Sonneborn Sonolac • Tremco acrylic latex 834
SLNT-6	Silicone building and glazing sealant, ASTM C920, Type S, Grade NS, Class 25, single component, chemical curing.	Interior and exterior sealing of metal to metal. Installation of glazing.	<ul style="list-style-type: none"> • Dow Corning 999-A
SLNT-7	Expandable foam sealer.	Backer for exterior wide joints subject to dynamic movement.	<ul style="list-style-type: none"> • EM-Seal Corp Gray-Flex • Illbruck Corp. Will-Seal Tape, Type 150

2.6 ACCESSORIES OR SPECIAL FEATURES

Provide joint cleaner and bond breakers as required and/or recommended by the sealant manufacturer

2.7 PREPARATION


Clean, prepare, and design joints in accordance with the manufacturer's instructions.

2.8 INSTALLTION GUIDELINES

- A. Comply with the sealant manufacturer's material installation instructions and requirements for the preparation of surfaces.
- B. Verify that the physical and environmental conditions for installation are acceptable. Beginning the installation constitutes acceptance of the conditions.

2.9 QUALITY CONTROL

Verify joint dimensions.

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