

SPECIFICATION
Sections 07 90 00 / 07 95 00

Color Coreseal SAF-V by Willseal LLC

Compressible, Resilient, Closed Cell Sealant System for Above Grade Applications.

Preformed, Resilient Sealant System with Pick Resistant Polyurethane Pre-Coated Surface
Watertight, Energy-Efficient, Exterior and Interior Above Grade Wall Joints.

PART 1 – GENERAL

1.01 Work Included

- A. The work shall consist of furnishing and installing waterproof expansion joints in accordance with the details shown on the plans and the requirements of the specifications. Preformed sealant shall be pick resistant polyurethane pre-coated, preformed, compressible, resilient, closed cell sealant system.
- B. Related Work
 - Division 4 - Masonry
 - Division 7 - Thermal & Moisture Protection
 - Division 7 - Sealants, caulking and waterproofing

1.02 Submittals

- A. General – Submit the following according to Division 1 Specification Section.
- B. Standard Submittal Package – Submit typical expansion joint drawing(s) indicating pertinent dimensions, general construction, expansion joint opening dimensions and product information.
- C. Certified by manufacturer to have no vertical laminations proven not to delaminate.
- D. Certified by manufacturer to be constructed of a monolithic body, free of heat laminations throughout the structure of the foam.
- E. Certified by the manufacturer to not rely on the pick resistant coating to provide the primary waterproofing function.
- F. Sample of material is required at time of submittal.
- G. Quality control, manufacturer shall be ISO-9001, certified and shall provide written confirmation that a formal Quality management System and Quality Processes have been adopted in the areas of, (but not limited to) Manufacturing, Quality Control and Customer Service for all processes, products and their components. Alternate manufacturers will be considered provided they submit written proof that they are ISO 9001, certified prior to the project bid date.
- H. Product must be certified by independent laboratory test report to exceed the requirements of curtain wall performance tests ASTM E330, E283-04, and E331. Product must meet or exceed hurricane-force wind loading with no deflection at both positive and negative pressures up to 4954 Pascals - equal to 200 mph winds (TAS 202/203).
- I. Manufactured in the USA

1.03 Product Delivery, Storage and Handling

- A. Deliver products to site in Manufacturer's original, intact, labeled containers. Handle and protect as necessary to prevent damage or deterioration during shipment, handling and storage. Store in accordance with manufacturer's installation instructions.

1.04 Basis-of-Design

- A. All joints shall be designed to meet the specified performance criteria of the project as manufactured by: Willseal LLC, 34 Executive Drive, Hudson, NH 03051, 800-274-2813. Willseal.com, custserv@willseal.com.
- B. Alternate manufacturers must demonstrate that their products meet or exceed the design criteria and must submit certified performance test reports performed by recognized independent laboratories as called for in section 1.02 Submittals. Submittal of alternates must be made three weeks prior to bid opening to allow proper evaluation time.

1.05 Quality Assurance

- A. The General Contractor will conduct a pre-construction meeting with all parties and trades involved in the treatment of work at and around expansion joints including, but not limited to, concrete, mechanical, electrical, HVAC, landscaping, masonry, curtain wall, waterproofing, fire-stopping, caulking, flooring and other finish trade subcontractors. All superintendents and foremen with responsibility for oversight and setting of the joint gap must attend this meeting. The General Contractor is responsible to coordinate and schedule all trades and ensure that all subcontractors understand their responsibilities in relation to expansion joints and that their work cannot impede anticipated structural movement at the expansion joints, or compromise the achievement of watertightness or life safety at expansion joints in any way.
- B. Warranty – Manufacturer's standard warranty shall apply.
- C. LEED Building Performance Requirements:
 - 1) The VOC of the pick resistant polyurethane must not exceed 100 grams/liter

PART 2 – PRODUCT

2.01 General

- A. Provide watertight, energy-efficient exterior and interior joints in vertical-plane walls (above-grade). Typical locations include, but are not limited to the following: applications in window perimeters, other façade penetrations such as doors, store fronts, vents, HVAC units, panel to panel joints, curtain walls, control joints, between dissimilar materials, structural expansion joints, acoustic partition barriers, and new-to-existing connections.
- B. Provide Color Coreseal SAF-V as manufactured by Willseal LLC and as indicated on drawings for vertical expansion joint locations.
- C. Preformed sealant shall be pick resistant polyurethane pre-coated, preformed, sealant system. Compressible foam to be a closed cell EVA cellular foam that is impermeable to water. Seal shall combine factory-applied, pick resistant polyurethane and the closed cell foam into a unified hybrid sealant system.
- D. Material shall be capable of movements of +25%, -25% (50% total) of nominal material size

- E. Pick resistant polyurethane external color facing to be factory-applied to the foam. When compressed to final joint dimension, a bellow(s) to handle movement must be created in the pick resistant polyurethane coating. Pick resistant polyurethane coating to be available in a range of standard colors for coordination with typical building materials.
- F. Select the sealant system model appropriate to the movement and design requirements at each joint location that meet the project specification or as defined by the structural engineer of record.
- G. Manufacturer's Checklist must be completed by expansion joint subcontractor and returned to manufacturer at time of ordering material.

2.02 Fabrication

- A. Color Coreseal SAF-V by Willseal LLC must be supplied 25% larger than the joint size, packaged in 6' lengths (sticks) with the factory supplied adhesive.
- B. Directional changes and terminations into horizontal plane surfaces can be provided by factory supplied 90-degree angles containing minimum 12-inch long leg and 6-inch long leg, or custom leg on each side of the direction change, or through field fabrication in strict accordance with published installation instructions. In most cases field conditions are such that the restrictive nature of the factory supplied corners do not conform to as built conditions and may outweigh the benefits. Consult manufacturer for proven field transition methods.

PART 3 – EXECUTION

3.01 Installation

- A. Preparation of the Work Area
 1. The contractor shall provide properly formed and prepared expansion joint openings constructed to the exact dimensions and elevations shown on manufacturer's standard system drawings or as shown on the contract drawings. Deviations from these dimensions will not be allowed without the written consent of the engineer of record.
 2. The contractor shall clean the joint opening of all contaminants immediately prior to installation of expansion joint system. Repair spalled, irregular or unsound joint surfaces using accepted industry practices for repair of the substrates in question. Remove protruding roughness to ensure joint sides are smooth. Ensure that there is sufficient depth to receive the full depth of the size of the Color Coreseal SAF- V being installed plus at least 1/8-inch (3mm) for the application of corner beads. Refer to Manufacturers Installation Guide for detailed step-by-step instructions.
 3. No drilling, or screwing, or fasteners of any type are permitted to anchor the sealant system into the substrate.

3.02 Clean and Protect

- A. Protect the system and its components during construction. Subsequent damage to the expansion joint system will be repaired at the general contractor's expense. After work is complete, clean exposed surfaces with a suitable cleaner that will not harm or attack the finish.

END OF SECTION