

Tech Hotline

Sealant Compatibility with StoGuard[®] Air Barrier Materials

Sealants are sometimes used in contact with StoGuard air barrier materials to achieve air/moisture barrier continuity. Several commonly used sealants have been tested for chemical and adhesion compatibility with StoGuard. The generic types of sealants that have been tested include:

- Single component acrylic sealants
- Single component silicone sealants
- Single and two-component urethane sealants

Table 1 below is a general guide on various sealants tested either by Sto or the sealant manufacturer, or both. The table also provides information on the level of testing that has been done to assist in product selection based on anticipated service conditions.

Table 1. Sealant compatibility testing with StoGuard air barrier materials

Sealant	StoGuard Air Barrier Material						
	Sto Gold Coat	Sto Emerald Coat	StoGuard VaporSeal	StoGuard RapidSeal	Sto AirSeal	Sto Flexyl	Sto Watertight Coat
Pecora							
864 NST	√	√		√	√		
890 NST	√	√		√			
890 FTS							
895 NST							
Dynatrol I-XL						√√√ ³	√√√ ³
Dynatrol II	√	√					
Dynatrol II ¹	√√√					√√√ ³	√√√ ³
Dynaflex SC STPU ²							
Dow Corning							
756	√√	√√	√√		√√		
758	√√	√√	√√	√√	√√		
791	√√	√√ ⁴	√√		√√ ⁴		
795	√√	√√	√√		√√ ⁴		
BASF							
BASF NP-1							

Selection Criteria: sealant applied to StoGuard Air Barrier Material

Increasing Severity of Test		Recommended based on C 1382 ^b
		Recommended based on C 794 ^a dry and wet (with immersion)
		Recommended based on C 794 ^a dry and D 4541 ^c dry (no immersion)
		Recommended based on C 794 ^a or D 4541 ^c dry (no immersion)
		Consider with caution (low adhesion)
		Not recommended, low peel or adhesion rating

1. With P-150 primer, 2. With P-120 primer, 3. Immersion and Frozen conditioning only 4. Use 1200-OS Clear primer for best adhesion

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As a reminder field tests should always be performed to verify compatibility under actual conditions, as lab tests cannot always predict in-service performance or chemical interactions that may occur. Always check with the sealant manufacturer to select the proper grade of sealant, primers, and for proper use and handling of their products to be sure of desired results. Refer to manufacturer's literature for appropriate field tests, chemical information, cautions, limitations, installation and warranty information. Sto Corp. makes no representation about durability, suitability for intended use, or ultimate performance characteristics of sealants.

- a. ASTM C 794, *Standard Test Method for Adhesion-in-Peel of Elastomeric Joint Sealants*
- b. ASTM C 1382, *Standard Test Method for Determining Tensile Adhesion Properties of Sealants When Used in Exterior Insulation and Finish System (EIFS) Joints*
- c. ASTM D 4541, *Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers*