

# Chemical Compatibility of Representative Building Sealants and Adhesives/Primers

## DuPont™ Tyvek® Commercial Building Envelope Solutions Products

Commercial construction professionals will often question whether a sealant or adhesive/primer can come in contact with DuPont Building Envelope Solutions products, including building wraps, fluid applied membranes, and self-adhered flashing. Building sealants can play an essential role in protecting the building envelope from air and water infiltration. The chemical compatibility of sealant or adhesive/primer DuPont Building Envelope Solutions products is important to ensure the effective long term performance and durability of a wall assembly. When creating a sealant joint, both the chemical compatibility and the level of adhesive bonding between the sealant and the DuPont Building Envelope Solutions products must be considered in order to achieve the desired air and water seal.

In general, most sealants used in commercial construction are chemically compatible with DuPont™ Tyvek® air and water barrier membranes and DuPont Flashing Products.

The tables below list representative examples of sealants, as well as adhesives/primers, that are chemically compatible with DuPont™ Tyvek® Weather-Resistive Barriers (WRBs) and DuPont Flashing Products, based on internal DuPont testing. Additional sealants and adhesives/primers may be suitable but were not tested by DuPont<sup>1,2</sup>. It is recommended that field testing be conducted to determine the acceptability of a specific product for the intended use in the particular wall assembly design.

**The sealant products listed in the table below were determined to have acceptable chemical compatibility<sup>1</sup> with DuPont™ Tyvek® Commercial Building Wraps and DuPont Self-Adhered Flashing Products:**

Silicone Sealants	Polyurethane Sealants	Hybrid Sealants	Synthetic Rubber & Butyl	Acrylic	Insulating Foam Sealants
DOWSIL™ 1199 Glazing Sealant	OSI VOC Quad® Advanced Formula	3M 5200	OSI® Pro-Series® Quad®	DuPont™ Residential Sealant	Great Stuff Pro™ Window & Door Polyurethane Foam Sealant
DOWSIL™ 732 Multi-Purpose Sealant	Permathane® SM7108	BASF MasterSeal® NP 150™	Sachco Lexel® Multi-Purpose Sealant	DAP® DynaFlex 230™	Great Stuff Pro™ Gaps & Cracks Polyurethane Foam Sealant
DOWSIL™ 756 SMS Building Sealant	Sikaflex® -1A	Bostik PRO-MS50™	Tremco® 830	OSI® H2U	OSI Quad® Foam
DOWSIL™ 758 Silicone Weather Barrier Sealant	BASF MasterSeal® NP 1™	Tower Tech 3	Tremco® Butyl Sealant		
DOWSIL™ 790 Silicone Building Sealant	Tremco® Dymonic® FC				
DOWSIL™ 795 Silicone Building Sealant	Tremco® Vulkem® 116				
DOWSIL™ 799 Silicone Glass and Metal Building Sealant					
GE SCS2000 SilPruf®					
Tremco® Spectrum 1					
Tremco® Spectrum 2					

**The sealant products listed in the table below were determined to have acceptable chemical compatibility<sup>1</sup> with DuPont™ Tyvek® Fluid Applied Products:**

Polyurethane Sealants	Silicone Sealants	Hybrid Sealants	Insulating Foam Sealants
Permathane® SM7108	DOWSIL™ 790 Silicone Building Sealant	DuPont™ Sealant for Tyvek® Fluid Applied System	Great Stuff Pro™ Window & Door Polyurethane Foam Sealant
BASF MasterSeal® NP 1™	DOWSIL™ 795 Silicone Building Sealant	BASF MasterSeal NP 150™	Great Stuff Pro™ Gaps & Cracks Polyurethane Foam Sealant
Tremco® Dymonic® FC	Pecora 864 NST	C.R. Laurence CRLM66 Textured Polyurethane Construction Sealant	OSI Quad® Foam
	Pecora 895 NST		
	Tremco® Spectrum 1		
	Tremco® Spectrum 2		

<sup>1</sup>Testing was conducted by DuPont on products available in the market at the time, between 2004-2014, for DuPont™ Tyvek® Commercial Building Wraps and DuPont Self-Adhered Flashing Products. Testing was conducted by DuPont Performance Building Solutions on products available in the market at the time, between 2010-2014 for DuPont™ Tyvek® Fluid Applied Products.

**The adhesive/primer products listed in the table below were determined to have acceptable chemical compatibility<sup>2</sup> with DuPont Self-Adhered Flashing Products.**

Adhesives/Primers				
DuPont™ Adhesive/Primer	Loctite® Spray Adhesive Professional Performance 300	3M™ Hi-Strength 90 Spray Adhesive	PolyGuard® 650 LT Liquid Adhesive	Denso Butyl Primer

**NOTE:** While these products were tested for contact with DuPont™ Tyvek® Building Wraps, DuPont recommends adhesive/primers are applied to the substrate and not directly to the building wrap. <sup>2</sup>Testing was conducted in 2019 by DuPont on adhesive/primer products available in the market at the time.

For project-specific questions and information about the chemical compatibility of other products with DuPont™ Tyvek® Commercial Building Envelope Solutions Products, please contact your local DuPont™ Tyvek® Specialist.



**For more information about  
DuPont Building Envelope  
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