

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/primers with 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.

The following tables list sealants and adhesives/primers, that are chemically compatible with DuPont™ Tyvek® Water-Resistive and Air Barriers (WRBs), DuPont Self-Adhered Flashing Products, and/or DuPont Fluid Applied Products based on internal DuPont testing. Additional sealants and adhesives/primers may be suitable but have not been tested by DuPont. **Refer to the manufacturer regarding product suitability for specific applications.** It is also 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^{1,2} with DuPont™ Tyvek® Commercial Building Wraps and DuPont Self-Adhered Flashing Products*:

Silicone Sealants	Polyurethane Sealants	Hybrid Sealants	Synthetic Rubber & Butyl Sealants	Acrylic Sealants	Insulating Foam Sealants
Boss® 380 Contractor's Silicone ²	Master® Building Solutions MasterSeal™ NP 1™ ¹	Master® Building Solutions MasterSeal™ NP 150™ ¹	LePage® Quad® Window, Door and Siding Sealant ²	Tower® AU-1 Window & Door Commercial Construction Sealant ²	Great Stuff Pro™ Window & Door Polyurethane Foam Sealant ¹
DAP® 100% Silicone Window & Door Sealant ²	Sikaflex® -1A ¹	Bostik PRO-MS50™ ¹	OSI Quad® Window, Door and Siding Sealant ²	Tower® Residential Sealant ^{1,3} (formerly DuPont™ Residential Sealant)	Great Stuff Pro™ Gaps & Cracks Polyurethane Foam Sealant ¹
DOWSIL™ 1199 Glazing Sealant ¹	Tremco® Dymonic® FC ¹		Tremco® 830 ¹	DAP® DynaFlex 230™ ¹	OSI Quad® Foam ¹
DOWSIL™ 732 Multi-Purpose Sealant ¹	Tremco® Vulkem® 116 ¹		Tremco® Butyl Sealant ¹	OSI H2U ²	
DOWSIL™ 756 SMS Building Sealant ¹					
DOWSIL™ 758 Silicone Weather Barrier Sealant ¹					
DOWSIL™ 790 Silicone Building Sealant ¹					
DOWSIL™ 795 Silicone Building Sealant ¹					
DOWSIL™ 799 Silicone Glass and Metal Building Sealant ¹					
DOWSIL™ Contractors Weatherproofing Sealant ²					
GE All Purpose Silicone 1® Sealant ²					
GE Advanced Silicone® 2 Window and Door Sealant ²					
GE SCS2000 SilPruf™ Sealant ¹					
OSI HM270 Construction Silicone Sealant ²					
Tremco® Spectrem 1 ¹					
Tremco® Spectrem 2 ¹					

¹ Testing was conducted by DuPont on products available in the market at the time, between 2004-2018, with DuPont™ Tyvek® Commercial Building Wraps and DuPont Self-Adhered Flashing Products.

² Testing was conducted by DuPont on products available in the market in 2023 with DuPont™ Tyvek® Commercial Building Wraps and DuPont Self-Adhered Flashing Products.

³ While Tower® Residential Sealant is chemically compatible with DuPont™ Tyvek® Commercial Building Products, it was specifically designed for low-rise construction applications, including single family and wood-framed multi-family buildings. It should not be used for commercial-type applications such as the interior perimeter seal of a storefront window or other non-flanged unit. See the applicable DuPont Installation Guidelines for more information.

*NOTE: When applying sealant in applications where DuPont Self-Adhered Flashing Products will subsequently be installed (such as behind the vertical leg of metal flashings), DuPont recommends minimizing or removing excess sealant that may interfere with adhesion of DuPont Self-Adhered Flashing Products.

The sealant products listed in the table below were determined to have acceptable chemical compatibility⁴ with DuPont™ Tyvek® Fluid Applied Products:

Silicone Sealants	Polyurethane Sealants	Hybrid Sealants	Insulating Foam Sealants
DOWSIL™ 795 Silicone Building Sealant	Master® Building Solutions, MasterSeal® NP 1™	Master® Building Solutions MasterSeal NP 150™	Great Stuff Pro™ Gaps & Cracks Polyurethane Foam Sealant
DOWSIL™ 790 Silicone Building Sealant	Tremco® Dymonic® FC	C.R. Laurence CRL M66 Textured Polyurethane Construction Sealant	Great Stuff Pro™ Window & Door Polyurethane Foam Sealant
Pecora 864 NST			OSI Quad® Foam
Pecora 895 NST			
Tremco® Spectrem 1			
Tremco® Spectrem 2			

⁴Testing was conducted by DuPont on products available in the market at the time, between 2010-2018 with DuPont™ Tyvek® Fluid Applied Products.

The adhesive/primer products listed in the table below were determined to have acceptable chemical compatibility⁵ with DuPont Self-Adhered Flashing Products.

Adhesives/Primers					
Loctite® Spray Adhesive Professional Performance 300 ⁵	3M™ Hi-Strength 90 Spray Adhesive ⁵	PolyGuard® 650 LT Liquid Adhesive ⁵	Denso Butyl Primer ⁵	3M™ Super 77 Spray Adhesive ⁶	ProtectoWrap® Protecto-Tak Aerosol Adhesive ⁶

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.

⁵Testing was conducted in 2019 by DuPont on adhesive/primer products available in the market at the time.

⁶Testing was conducted in 2023 by DuPont on adhesive/primer products available in the market at the time.

The sealant products listed in the table below were determined to have acceptable chemical compatibility⁷ with DuPont™ Tyvek® Commercial Building Wraps once allowed to fully cure prior to being overlapped by the WRB. Refer to manufacturer for more information on specific cure times needed for the sealant selected.

Balcony Waterproofing Sealants	
Polyguard® Detail Sealant PW™ ⁷	Keene Building Products KeeneSeal 100 ⁷

⁷Testing was conducted by DuPont on products available in the market in 2023 with Tyvek® Commercial Building Wraps.

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
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