

Adhesion Performance Reference Sheet

DuPont™ Tyvek® Fluid Applied Products and DuPont Self-Adhered Flashing Products

The proper adhesion between various weatherization materials is often critical in protecting the building envelope from unwanted air and water infiltration. The necessary level of adhesion is dependent on the joint design and specific performance requirements of a project. The long term performance of the sealant joint will further depend on the proper joint design and sealant installation to accommodate expected joint movement.

The level of adhesion will vary depending on the chemistry of the specific sealant. The sealant adhesion levels listed below are based on DuPont test protocols and in-house testing.

The adhesion testing followed two protocols depending on the type of substrate: for sealants to fluid-applied materials, ASTM C794-10 was used (as specified in AAMA 714-15) and for sealants to self-adhered flashing membranes, ASTM D3330-10 was used (as specified in AAMA 711-13)

The tables below show adhesion levels of the listed SEALANTS when applied OVER Tyvek® Fluid Applied products & DuPont Self-Adhered Flashing Products topsheets.

Building Sealants	DuPont™ Tyvek® Fluid Applied Products
Silicone Sealants	***
Polyurethane Sealants	****
Hybrid Sealants	***
Synthetic Rubber & Butyls	***
Acrylic Sealants	*

Building Sealants	DuPont Self-Adhered Flashing Products
Silicone Sealants	***
Polyurethane Sealants	***
Hybrid Sealants	***
Synthetic Rubber & Butyls	***
Acrylic Sealants	**

* = Low (< 1.5 pli. Generally only recommended for gasketed sealing)

** = Moderate (1.5 – 5 pli)

*** = High (5 – 10 pli)

**** = Very High (> 10 pli)

The tables below show adhesion levels of Tyvek® Fluid Applied products when applied OVER the listed sealants, flashings, self-adhered membranes and other general construction materials.

Sealants, Flashings, and SA Membranes	DuPont™ Tyvek® Fluid Applied Products
Self-Adhered Membranes with HDPE Topsheets	***
EPDM Membrane	***
PVC with Elvaloy® Membrane	****
Precured Silicone Membrane	***
Silicone Sealants	****
Polyurethane Sealants	****
Hybrid Sealants	****
Acrylic Sealants	****
Polyurethane Window & Door Foam (cut surface)	**

General Construction Materials	DuPont™ Tyvek® Fluid Applied Products
CMU & Concrete	***
Glass Faced Gypsum Sheathing (facer failure)	***
Steel and Aluminum	****
Vinyl	***
Repair Mortar & Green Concrete	****
Standard & Fire Treated Wood Lumber	****
Wood Exterior Sheathing (plywood, OSB)	****
Polystyrene Insulation Board (board substrate failure)	*
Aluminum Faced Polyiso Board (facer failure)	*

For project specific questions and other sealants that may be compatible with DuPont Building Envelope Solutions products, please contact your local DuPont Commercial Seller/Agent or Commercial Tyvek Specialist.



**For more information about
DuPont Performance Building Solutions,
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at building.dupont.com/commercial**

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