

DuPont™ Residential Sealant

Highly Flexible Sealant for Residential Construction

FEATURES/BENEFITS

Description

DuPont™ Residential Sealant is a durable, highly-flexible sealant for window and door installation and general construction. This sealant is scientifically formulated to bond with DuPont Building Envelope Solutions products and a wide range of general building substrates. UV stable sealant bead. The cured sealant is durable and flexible enough to accommodate ±25 percent movement of original joint dimension when installed in a properly designed weatherseal joint.

Ease of Use

Available in white, DuPont™ Residential Sealant is a versatile, paintable, high-performance weather sealing product ideal for new construction and restoration applications. Features include:

- Excellent weatherability – virtually unaffected by sunlight, rain, snow, ozone and temperature extremes of -20°F (-29°C) to 180°F (82°C)
- Excellent unprimed adhesion to a wide variety of construction materials and building components
- Excellent adhesion to all DuPont residential and commercial weather barrier products
- Excellent adhesion to all DuPont Flashing Products with DuPont™ Tyvek® top-sheets
- Excellent paintability (no “shiners”) and stain resistance.
- Exceptionally low VOC (below 1.5%, equivalent to less than 16 g/L)
- Easy application – ready to use as supplied, very easy clean-up
- Convenient – excellent gunnability down to 32°F (0°C), very easy tooling and low odor sealant (mild sweet acrylic)
- Meets requirements of South Coast Air Quality Management District (SCAQMD) Rule #1168 as required for LEED® points
- Meets key industry standards



Applications

Weathersealing of most common construction materials including, but not limited to, the following:

- | | |
|--|-----------------------------|
| • Stucco | • Metal |
| • EIFS | • Glass |
| • Precast | • Marble |
| • Hard Board Siding (fiber cement board) | • Granite |
| • Masonry | • Porcelain or Ceramic Tile |
| • Brick or CMU | • Vinyl Siding |
| • Concrete | • Crown Molding |
| • Wood | • PVC or Wood-Based Trim |

Adhesion results may vary depending on unique substrates and surface finish conditions. Field adhesion testing is recommended for optimum results.

Available Sizes

DuPont™ Residential Sealant is supplied as follows:

- 10.3 oz (304 mL) disposable cartridges fitting standard caulking guns
- 20 oz (590 ml) sausages

Sustainable Solutions

DuPont Building Envelope Solutions are an important part of the ENERGY STAR® Home Sealing labeling program and NAHB Green Home Building Guidelines.

PROPERTIES

Please contact your local DuPont™ Tyvek® Specialist before writing specifications around this product. Typical properties can be found in Table 1.

TABLE 1: Typical Physical Properties – DuPont™ Residential Sealant

Test Method	Property	Unit	Value
	Binder Type		
	Application Temperature (min. to max.)	°F (°C)	Modified Urethane Acrylic 32 to 160 (0 to 71)
ASTM C-731	Extrusion (viscosity)	grams/sec (@75°F/50psi)	> 15
ASTM C-719	Cyclic Movement	%	50 (+/-25)
ASTM D-2370	Elongation	%	> 800%
ASTM D-2370	Tensile Strength	psi	> 150
ASTM C-793	Low temperature flexibility 180° bend (1/2" mandrel) @ -15°F	Pass / Fail	PASS
Calculated VOC	(volatile organic compound)	% (by wt.)	< 1.5% *
	Peel Adhesion (5 pli passes test):		PASS
ASTM C-794	Glass Aluminum Cement		25-28 PLI 20-28 PLI 14-24 PLI **
ASTM C-661	Hardness	Shore A	13 + 2
ASTM C-639	Sealant Slump	mm	0
ASTM C-679	Tack Free Time	minutes	> 60

*Meets the current and proposed California Air Resources Board (CARB) VOC regulations.

**The substrate (cement) failed; the sealant bond was intact.

INSTALLATION

Preparation

- All surfaces must be clean and dry. Do not apply on exterior surfaces when rain is immediately expected with 4-6 hours.
- Remove all foreign matter and contaminants (dirt, dust, oil, grease, mildew, loose paint, or old caulk).
- Only apply when sealant, surface and air temperatures will remain above freezing (32°F / 0°C). Do not apply on substrates or surfaces that are above 160°F (71°C).

Application

1. Cut nozzle at a 45° angle. Cured bead should be between 1/8" and 1/2". Use recommended foam backer rod or bond breaker tape for larger gaps; follow guidelines from rod and tape manufacturers for correct backer rod and tape sizes related to joint size.
2. Prior to any use, it is always recommended that the sealant be applied on the substrate surface to test adhesion.
3. Using a caulking gun, apply and tool sealant with adequate pressure to spread the sealant against the back-up material at the bottom and sides of the joint.
4. Clean up tools with soap and water.
5. Allow 4 to 6 hours curing time before applying paint.

COVERAGE: Approximately 56 linear feet for a 3/16" bead.

TESTING

Applicable Standards

DuPont™ Residential Sealant meets the requirements of the following industry specifications and standards:

- Federal Specification, TT-S-00230C, Type S, Class A
- ASTM C-920, Grade NS, Class 25
- ASTM C-834 type OP, Grade-18°C
- AAMA 808.3 Compliant

Limitations

DuPont™ Residential Sealant should **not** be used for the following:

- In structural applications
- In below-grade applications
- On surfaces that are or will be continuously immersed in water
- On building materials that bleed oils, plasticizers or solvents that may affect adhesion
- On frost-laden or wet surfaces or if rain is imminent within 4–6 hours
- On surfaces in direct contact with food or other food-grade applications
- On surfaces having temperatures exceeding 160°F (71°C) during installation

- If the tooled sealant is required to be immediately painted (the tooled sealant must be allowed to cure for 4-6 hours prior to painting)
- Avoid solvent exposure during the curing of the tooled sealant.

Additionally, this product is neither tested nor represented as suitable for medical or pharmaceutical uses.

HANDLING

Hazard Statements

TO ENSURE SAFE PRODUCT HANDLING, PRODUCT MATERIAL SAFETY DATA SHEET AND PRODUCT LABEL STATE THE FOLLOWING:

Harmful if swallowed, inhaled or absorbed through the skin. Avoid contact with eyes, skin and clothing. Use in well ventilated area. Wear eye and skin protection. **Eye contact:** Immediately flush with water for 15 minutes and get medical attention immediately.

If swallowed: Do not induce vomiting. Drink large quantities of water and get medical attention. Never give anything by mouth to an unconscious person. May cause allergic skin reactions and/or central nervous system depression. Adverse reproduction effects have been reported in animals. May cause adverse kidney effects.

Warranty

For more information about available warranties, please contact your local DuPont™ Tyvek® Specialist, call DuPont directly at 1-800-448-9835 or visit building.dupont.com.

For health information, please refer to Material Safety Data Sheet at www.tyvek.com or call CHEMTREC at 1-800-424-9300.

For further environmental information, please see our website at www.tyvek.com or phone us at 1-800-448-9835.

Shelf Life and Storage

When stored between 35°F (2°C) and 80°F (27°C), DuPont™ **Residential Sealant** has a shelf life of 18 months from the date of manufacture printed on the cartridge.



**For more information visit us at
building.dupont.com
or call 1-866-583-2583**

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CAUTION: This product is combustible. Protect from high heat sources. A protective barrier or thermal barrier may be required as specified in the appropriate building code. For more information, consult (Material) Safety Data Sheet ((M)SDS), call DuPont at 1-866-583-2583 or contact your local building inspector. In an emergency, call 1-989-636-4400 in the U.S. or 1-519-339-3711 in Canada.

WARNING: Rigid foam insulation does not constitute a working walkable surface or qualify as a fall protection product.

Building and/or construction practices unrelated to building materials could greatly affect moisture and the potential for mold formation. No material supplier including DuPont can give assurance that mold will not develop in any specific system.

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