

# DuPont™ Commercial Sealant

## MODIFIED URETHANE ACRYLIC SEALANT – AN INTEGRAL PART OF THE DUPONT™ WEATHERIZATION SYSTEM

### PRODUCT INFORMATION

#### FEATURES

- Compatible with other DuPont™ Weatherization System components
- Ideal for new construction and restoration applications
- Versatile high performance weathersealing product
- Available in convenient packaging forms
- Available in translucent
- Paintable

#### BENEFITS

- 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 Systems products having DuPont™ Tyvek® top-sheets
- Excellent paintability (no “shiners”) and stainability
- Exceptionally low VOC (below 1.5%, equivalent to less than 16 g/L)
- Ease of application – ready to use as supplied, very easy clean-up
- Ease of use – 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

#### DESCRIPTION

DuPont™ Commercial Sealant is a one-part architectural-grade, urethane-modified acrylic sealant that easily extrudes in a variety of weather and temperature conditions and cures quickly at room temperature. This cold-applied, non-sagging urethane-modified acrylic material cures to a flexible, UV stable elastomer. 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.



#### TYPICAL PROPERTIES

Please contact your local DuPont™ Tyvek® Specialist before writing specifications around this product. Typical properties are as follows:

TEST METHOD	PROPERTY	UNIT	VALUE
	Binder Type		Modified Urethane Acrylic
	Application Temperature (min. to max.)	°F (°C)	32 to 160 (0 to 71)
	Storage	°F (°C)	35-80 (2-27)
ASTM C-731	Extrusion (viscosity)	grams/sec (@75°F/50psi)	>15
ASTM C-719	Cyclic Movement	%	50 (+/-25)
ASTM D-2370	Elongation	%	1000
ASTM D-2370	Tensile Strength	psi	> 200
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 *
ASTM C-794	Peel Adhesion (5 pli passes test):		
	Glass Wet	PLI	26.5
	Glass Dry	PLI	42
	Aluminum Wet	PLI	24
	Aluminum Dry	PLI	37
	Cement Wet	PLI	18 **
	Cement Dry	PLI	16 **
ASTM C-661	Hardness	Shore A	10–20
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.

#### APPLICATIONS

Weathersealing of most common construction materials including, but not limited to, the following: Stucco, EIFS, Precast, Hard Board Siding (fiber cement board), Masonry, Brick or CMU, Concrete, Wood, Metal, Glass, Marble, Granite, Porcelain or Ceramic Tile, Vinyl Siding, Crown Molding, and 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.

## HOW-TO-USE

### PREPARATION

All Surfaces must be clean and dry. 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). Do not apply on exterior surfaces when rain is immediately expected with 4-6 hours.

### APPLICATION METHOD

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 professional 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.

### APPROVALS / SPECIFICATIONS

DuPont™ Commercial 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

### HANDLING PRECAUTIONS

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.

### HEALTH AND ENVIRONMENTAL INFORMATION

**For health information, please refer to Material Safety Data Sheet at [www. Construction.Tyvek.com](http://www.Construction.Tyvek.com) or call CHEMTREC at 1-800-424-9300.**

For further environmental information, please see our website at [www.Construction.Tyvek.com](http://www.Construction.Tyvek.com) or phone 1-800-44-Tyvek.

### SHELF LIFE AND STORAGE

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

### PACKAGING

DuPont™ Commercial Sealant is supplied as follows:

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

### LIMITED WARRANTY INFORMATION

DuPont warrants that the DuPont™ Commercial Sealant will meet the specifications in the Physical Properties Data Sheet for ten (10) years from the date of manufacture, provided it has been properly applied, stored and used as directed. DuPont liability and the sole and exclusive remedy under this warranty are limited to replacement of the DuPont™ Commercial Sealant. Proof of purchase is required.

DUPONT MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED. DUPONT SHALL NOT BE LIABLE EITHER IN TORT OR IN CONTRACT FOR ANY DIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOST PROFITS, LOST REVENUES, LOSS OF USE, OR ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTY. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES.

For more information about this warranty, please contact your local DuPont™ Tyvek® Specialist or call DuPont directly at 1-800-44-Tyvek.

### LIMITATIONS

DuPont™ Commercial 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.



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