



DUO-SIL®

URETHANE ACRYLIC SEALANT & ADHESIVE

TECHNICAL DATA SHEET 01/04/2024

SMART ADVANTAGES

- Interior and exterior use
- Weatherproof and mildew resistant
- Available in 145+ colors, including clear

DESCRIPTION

Bostik DUO-SIL® is a special formulation of urethane and acrylic emulsion formulated for the professional applicator which can be used as an adhesive or caulking compound for commercial and residential construction.

DUO-SIL® as a caulking compound can be used to fill butt joints in vinyl, aluminum and fiber cement siding, windows, doors, brick molding, counter tops, showers and most areas where a sealant is needed.

DUO-SIL® as an adhesive has superior bond to most building substrates with no need for primer. DUO-SIL® will adhere to wood, metal, gypsum board, vinyl board, cove base, molding, foam board and many more building products.

DUO-SIL® as an adhesive and caulking compound will not degrade Polystyrene foam bead board the way most solvent based or plasticized sealants do.

PRODUCT FEATURES

- Easy to apply (tooling not recommended)
- Excellent adhesion to most common building substrates
- Available in 145 stock colors, including Clear
- Mildew resistant
- Flexible
- Paintable after 1-2 hours
- Low VOC
- Will not crack or fade
- Non-hazardous and non-flammable

APPLICABLE STANDARDS

DUO-SIL® meets or exceeds the standard specification for latex sealants ASTM C834-00, Type C, Grade O° C.

APPLICATIONS

DUO-SIL® can easily be applied with conventional hand or air-powered caulking equipment. The sealant should be applied in a continuous operation with adequate pressure to fill the joint to the proper width and depth (do not overfill the joint).



DIRECTIONS FOR USE

- Do not apply if rain or freezing conditions are expected in a 24-48 hour period.
- Keep from freezing. Apply when sealant and surface temperatures are between 40°F (4°C) and 100°F (38°C).
- Cut spout to desired bead size. (3/8" recommended).
- Surfaces must be clean, dry, dust and dirt free.
- Gun sealant into void to provide a solid fill.
- Do not recommend tooling due to nature of product.
- Can be painted over with latex or water-based paints after 1-2 hours providing a skin has been formed. For oil based paints, allow 24 hours before painting.
- Clean up excess material and tools with soap and water before curing.
- Store at room temperature.

JOINT DIMENSIONS

Joint size should not exceed 1" wide x 1/2" deep. If depth exceeds 1/2", use backer rod.

JOINT BACKING BOND BREAKER

Joint backing should be used to control the recommended joint depth and prevent 3-sided adhesion. Joint backing may be open cell polyurethane foam or closed cell polyethylene. Joint backing must be thoroughly dry. Do not install more joint backing than can be caulked in one day.

TOOLING

Tooling is not recommended due to nature of product.

This supersedes and replaces in its entirety all previously published versions of this document. T3264

COVERAGE

Coverage will vary depending upon joint size. Approximate coverage for 10.1 fl oz (300 ml) cartridge covers 24 linear feet with a 1/4" bead and 11 linear feet with a 3/8" bead.

APPROXIMATE COVERAGE CHART				
Coverage for 10.1 fl oz (300 ml) Cartridge				
Depth	Width			
	1/8"	1/4"	3/8"	1/2"
1/8"	99	49	33	24
1/4"	—	24	20	12
3/8"	—	—	11	8
1/2"	—	—	—	6

Linear Feet per 10.1 fl oz Cartridge

LEED® CONTRIBUTION

This Low VOC formulation (as calculated per SCAQMD Rule 1168), may contribute toward LEED® credits under section NC-v2.2 EQ 4.1: Low-Emitting Materials—Adhesives & Sealants.

CLEAN UP

Cleaning of uncured material can be accomplished with soap and water.

STORAGE/SHELF LIFE

Product shelf life is 24 months under normal storage conditions between 40°F (4°C) and 80°F (27°C). Temperatures that are below 40°F (4°C) may result in freezing. Store in cool, dry, frost-free conditions.

LIMITATIONS

- Easy to apply (tooling not recommended)
- Excellent adhesion to most common building substrates
- Available in 145 stock colors, including Clear
- Mildew resistant
- Flexible
- Paintable after 1-2 hours
- Low VOC
- Will not crack or fade
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PACKAGING

Available in 10.1 fl oz (300 ml) cartridges — 12 per case, 140 cases per pallet.

Available in 20 fl oz (591ml) sausages, white only — 12 per case, 45 cases per pallet.

AVAILABLE COLORS

145+ colors, including clear. See color chart for reference.

CAUTION

IRRITANT. MAY IRRITATE EYES, SKIN OR RESPIRATORY TRACT. CONTENTS MAY BE HARMFUL IF SWALLOWED OR INHALED. Do not breathe fumes. Do not get in eyes, on skin or on clothing. Do not

swallow. Handle with care. Use only in a well-ventilated area or wear a mask. Wear protective clothing including gloves. Wash thoroughly after handling. Store in a cool, dry area. Do not reuse container.

FIRST AID TREATMENT

Contains proprietary acrylic polymer mixture and titanium dioxide inextricably bound in a polymer matrix. If in eyes or on skin, rinse well with water for at least 15 minutes. If on clothes, remove clothing. If inhaled, move person into fresh air. If swallowed, call a Poison Control Center or doctor immediately. Do not induce vomiting.

KEEP OUT OF REACH OF CHILDREN

SEE SAFETY DATA SHEET

Chemical Emergency: 800-424-9300 (USA), 703-527-3887 (International)

Medical Emergency: 866-767-5089

CHEMICAL & PHYSICAL PROPERTIES

Chemical Properties	Chemistry Type	Acrylic Polymer Mixture
	Adhesive Type	Sealant
	VOC Compliant (calculated per SCAQMD Rule 1168)	Yes (<15 g/L)
Use Environments	New Construction	Yes
	Remodel	Yes
	Residential	Yes
	Offices/Light Commercial	Yes
	Heavy Commercial	Yes
	Offices	Yes
	Hospital	Yes
	Multifamily	Yes
	Highrise	Yes
Exterior	Yes	
Wet Areas	Yes	
Application Properties	Ease of Gunning	Easy
	Odor	Mild
	Open/Working Time**	15 min
	Color	Multiple
	Specific Gravity	1.09
Cured Physical Properties	Application Temperature	40° F to 100° F (4° C to 37° C)
	Temperature Resistance	-30° F to 170° F (-34° C to 77° C)
	Cure Time	1-2 weeks
	Skinning Time	15mins @ 70° F (21° C)
LEED® Contribution	Shrinkage	Approx 30%
	Hardness	Shore A 68
	Paintability	With most paints
LEED® Contribution	EQ 4.1: Low-Emitting Materials: VOC (as calculated per SCAQMD Rule 1168)	<15 g/L

** Per ASTM E203-01 Standard Test Method for water using Volumetric Karl Fischer Titration Method. Results rounded to the nearest tenth. Test Method has error range of +/- 0.2%.

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Bostik, Inc.

11320 W. Watertown Plank Road
Wauwatosa, WI 53226
www.bostik.com/us

BOSTIK HOTLINE

Smart help 1-800-726-7845



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