

NON-SAG SEALANT & ADHESIVE

Multi-Surface, Multi-Purpose Hybrid Silane Polyether



PRODUCT DATASHEET

DESCRIPTION: Rapid Set® NON-SAG SEALANT & ADHESIVE is a single-component, multi-purpose, fast curing, non-sag, UV stable sealant and adhesive. Its hybrid silane polyether chemistry enhances both adhesive and cohesive bond, prevents shrinkage upon cure, provides high tensile strength and flexibility, exceptional durability, and weather resistance. NON-SAG SEALANT & ADHESIVE promotes superior adhesion that outperforms the bond strength of polyurethanes, and will not foam on damp surfaces. This environmentally friendly formulation has a low VOC content, is 100% solvent free, and contains no isocyanates.

USES: Use NON-SAG SEALANT & ADHESIVE for interior and exterior applications. Its superior sag resistance makes it ideal for use on horizontal, vertical and overhead applications, including: filling wall joints, control joints, expansion joints, cove joints, and cracks; roofing, sealing windows, and door frames. It is engineered for use on exterior balconies, concrete floor slabs, concrete and asphalt driveways, roadways, walkways and pavement, asphalt to concrete joints and cracks, garages, patios, and other vertical, horizontal, and overhead applications. This material provides excellent adhesion to PVDF coated metal, galvanized metal, aluminum, wood, glass, cement board, brick, concrete, stone, aged asphalt, EPDM and SBS-modified bitumen membranes, EPS foam, roofing materials, fiberglass, FRP, vinyl siding, and masonry. It can be used in damp, dry or cold climates, and its excellent adhesion characteristics make it ideal for application to damp concrete substrates.

ENVIRONMENTAL ADVANTAGES: Low VOC, 100% solids, isocyanate-free products are ideal for applications where the presence of VOCs, fumes or vapors are unacceptable. These products reduce the health risks of building occupants, installers and contractors; and contribute to improved indoor and outdoor air quality. Maximum durability and service life minimizes construction waste byproducts.

REGULATORY COMPLIANCE: Conforms to the OTC rule for sealants. Meets the requirements of California Regulations: CARB, BAAQMD and SCAQMD. Conforms to USDA requirements for non-food contact.

GREEN STANDARDS: LEED 2.2 for new construction and major renovations: Low emitting materials (section 4.1) 1 Point. National Association of Home Builders (NAHB) Model Green Home Building Guidelines: 5 global impact points. VOC Content: 8 grams/liter per ASTM D2369. EPA Method 24 (tested at 240°F [115°C]).

SURFACE PREPARATION: Ensure substrate is clean, sound, and free of bond inhibitors, such as grease, oil, mold, surface water, coatings and sealers. For best results, roughen surfaces with an abrasive disc or sand paper, then wipe with acetone. Tape off or protect adjacent areas.

APPLICATION: Apply between a minimum temperature of 35°F (2°C) and rising, and a maximum of 100°F (38°C). For best results, place sealants between 70°F (21°C) and 80°F (27°C). Cut the end of the nozzle to match the width of the joint and insert a tool to puncture the inner foil seal. Ensure the opening size of the nozzle and foil seal are large enough to allow proper flow. Too small an opening could result in excessive back pressure, leading to failure of the rear seal. Insert the cartridge into a caulking gun. Place nozzle at bottom of joint or application area to avoid trapping air during placement. Keep the nozzle in the material during application. Using constant pressure, carefully apply the sealant with a smooth continuous bead. If tooling is needed, do so within 15 minutes of application.

CRACK/JOINT FILLING: To maintain flexibility, the ideal width to depth ratio should be 2:1. Do not exceed 1/2" (13 mm) depth. Place backer rod, where required, to control depth and prevent three-sided bonding. Concrete joints (tooled or saw cut) must be free of contaminants and the concrete must have at least 72 hours of cure before placement.

OVERVIEW

Highlights:

Outperforms and outlasts silicone and polyurethane technologies

Professional sealer for cracks and joints, windows, doors, siding, trim, kitchen, bath, plumbing

Superior adhesion to multiple surfaces including asphalt

Horizontal, vertical, and overhead

Fast Curing: Paintable and waterproof in 90 minutes

Bonds to wet surfaces

Freeze thaw resistant -4°F (-20°C) to 194°F (90°C)

Interior/exterior

Weather and UV resistant, non-shrink

No odor, and no isocyanates

Conforms to:

ASTM C920, Type S, Grade NS, Class 50, uses NT, T2, M, G, A, and O

Federal Specification TT-S-00230-C, Type II, Class B

Army Corps of Engineers CRD-C-541, Type II, Class B

Canadian Standards Board CAN 19,13-M-82

MasterFormat® 2016

07 01 90 Joint Sealant Rehabilitation/Replacement

07 92 13 Elastomeric Joint Sealants

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CLEAN-UP: Remove excess material, using acetone and disposable paper towels or cloth rags before it cures on placement tools and adjacent surfaces. Dispose of waste material in compliance with local regulations.

CURING: Tack-free in 60 minutes; paintable in 90 minutes at 1/4" (6 mm) at 70°F (21°C), 50% relative humidity.

COLD WEATHER: Installation in low temperatures will extend cure times of the Rapid Set® NON-SAG SEALANT & ADHESIVE. To ease flow and placement in cold conditions, warm and keep the sealant at 70°F (21°C) 24 hours prior to installation. Remove dew, frost or ice from the substrate with acetone on a clean cloth and place sealant immediately.

WARM WEATHER: Installation in warmer temperatures 80°F to 100°F (27°C to 38°C) will not adversely affect sealant performance. Warmer temperatures will decrease viscosity and shorten cure time.

PACKAGING: Available in single-component, 10.1 fl. oz. (299 mL) cartridge.

COLORS: Gray, White, Black and Sandstone.

COVERAGE: 10.1 fl. oz. (299 mL) yields 18.2 in³ (298.2 cm³), 96 linear feet (29 m) for 1/8" x 1/8" (3 mm x 3 mm) joints, 48 feet (15 m) for 1/8" x 1/4" (3 mm x 6 mm) joints, 24 linear feet (7 m) for 1/4" x 1/4" (6 mm x 6 mm) joints, 12 linear feet (4 m) for 1/4" x 1/2" (6 mm x 13 mm) joints.

| 10.1 FLUID OUNCE (299 ML) COVERAGE RATE | | |
|---|------------------------|---------------------------|
| Depth of Joint, Inches | Width of Joint, Inches | Linear Feet Per Cartridge |
| 1/8" (3 mm) | 1/8" (3 mm) | 96' (29 m) |
| 1/8" (3 mm) | 1/4" (6 mm) | 48' (15 m) |
| 1/4" (6 mm) | 1/4" (6 mm) | 24' (7 m) |
| 1/4" (6 mm) | 1/2" (13 mm) | 12' (4 m) |

SHELF LIFE: NON-SAG SEALANT & ADHESIVE has a shelf life of 24 months from the date of manufacture when properly stored.

STORAGE: Store in original, unopened container in a cool, dry, area. Protect unopened container from water, heat and direct sunlight. Store at 40°F to 80°F (4°C to 27°C). Elevated temperatures will reduce shelf life.

LIMITATIONS: Do not apply greater than 1" width and 1/2" depth. Do not use in continuous immersion applications. Allow treated wood and asphalt to cure for six (6) months prior to application of NON-SAG SEALANT & ADHESIVE. Do not apply on frozen substrates. Test and evaluate all paints and coatings before applying to NON-SAG SEALANT & ADHESIVE. Some paints may not dry on sealant. White color will yellow with interior lighting. High rates of moisture vapor will cause bubbling.

USER RESPONSIBILITY: Before using, read current technical data sheets, bulletins, product labels and safety data sheets. It is the user's responsibility to review the instructions and warnings for any CTS products prior to use.

Refer to the Safety Data Sheet and www.CTScement.com for additional safety information regarding this material.

WARNING: AVOID CONTACT WITH SKIN AND EYES. Can cause skin irritation, may cause an allergic skin reaction, causes serious eye irritation. Wear protective gloves, protective clothing, and eye protection. In case of contact with eyes rinse immediately with plenty of water and seek medical advice.

LIMITED WARRANTY: CTS Cement Manufacturing Corp. (CTS) warrants its materials to be of good quality and at its option, within 18 months from date of manufacture, will replace material proven defective or refund purchase price thereof, and such replacement or refund shall be the limit of CTS' responsibility. Except for the foregoing, all warranties, expressed or implied, including merchantability and fitness for a particular purpose, are excluded. CTS shall not be liable for any consequential, incidental, or special damages arising directly or indirectly from the use of the materials.

⚠ WARNING

CANCER and REPRODUCTIVE HARM - www.P65Warnings.ca.gov

TYPICAL PHYSICAL DATA

| | |
|--------------------------------------|---|
| Colors | Gray, White, Black and Sandstone |
| Stain and Color Change, ASTM C510 | No change |
| Hardness, Shore A ASTM C661 | 31 |
| Tack Free Time, ASTM C679 | 60 minutes |
| Joint Movement, ASTM C719 | +/- 50% |
| Adhesion-in-Peel, ASTM C794 | 25 pli |
| Tensile Strength, ASTM D412 | 230 psi (1.59 MPa) |
| Tensile Elongation, ASTM D412 | > 600% |
| Tear Strength, ASTM D624 | 55 pli |
| Volatile Organic Content, ASTM D2369 | 8 g/l |
| Gun Grade | Zero slump |
| Viscosity | 600,000 cps, Brookfield HADV2T, T-E Spindle, 5 RPM, 73°F (23°C) |
| Shrinkage | No visible shrinkage after 14 days |
| Service Temperature | -4°F To 194°F (-20°C to 90°C) |

Note: Data obtained at 70°F (21°C). ASTM Standards are current unless otherwise stated.

VOC Compliance (Volatile Organic Compound)

Meets U.S. EPA 40 CFR 59 Subpart C & D; CARB: California Air Resource Board; LADCO: Lake Michigan Air Directors Consortium (Illinois, Indiana, Michigan, Wisconsin); MRPO: Midwest Regional Planning Organization (Illinois, Indiana, Michigan, Ohio, Wisconsin); SCAQMD: South Coast Air Quality Management District (Los Angeles, Orange, Riverside, San Bernardino Counties); and CEPA/EC: Canada Environmental Protection Agency/Environment.



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