

TECHNICAL DATA SHEET

DYMONIC® 100

High-Performance, High-Movement, Single-Component, Polyurethane Sealant

PRODUCT DESCRIPTION

Dymonic® 100 is a single-component, medium-modulus, non-sag polyurethane sealant. Dymonic 100 offers a high-performance, high-movement, durable, flexible seal that performs excellently in moving joints and exhibits tenacious adhesion to substrates once fully cured.

BASIC USES

Typical applications for Dymonic 100 include expansion and control joints, precast concrete panel joints, perimeter caulking (windows, doors, and panels), aluminum, masonry, and vinyl siding. Dymonic 100 is also an excellent choice as a fluid applied flashing material in rough opening perimeters for fenestration/window, door and curtain wall applications. Dymonic 100 is suitable for water immersion applications and will not out gas.

FEATURES & BENEFITS

Dymonic 100 has been formulated with an innovative polymer technology, similar to TREMproof® 250GC and Vulkem® 45SSL, that allows it to be highly versatile and grants its unique capability to adhere to damp or green concrete without outgassing. The skin time of Dymonic 100 is 2 hours and the tack-free time is 6 to 8 hours. This significantly reduces dirt attraction and improves the overall asthetic look.

Dymonic 100 has a movement capability of +100/-50% in typical field conditions with excellent performance in moving joints. The formula is low-VOC and UV-stable, meaning Dymonic 100 will not crack, craze, or yellow under extreme UV exposure. Additionally, Dymonic 100 is jet fuel-resistant and compatible with many common construction substrates.

- Compatible with and can be coated over with Tremco's Vulkem Deck Coatings, ExoAir® Air Barrier products and the cold, fluid-applied TREMproof® line of below-grade waterproofing products
- Accepted for use over Nudura Insulated Concrete Forms (ICF)

There are 21 standard color options available for Dymonic 100, with the option of painting over the sealant.

Dymonic 100 meets or exceeds the requirements of the following specifications:

- ASTM C920 Type S, Grade NS, Class 50, Use NT, T, M, A, O, I
- U.S. Federal Specification TT-S-00230C, Class A, Type II
- CAN/CGSB-19,13-M87
- International Code Council (ICC) Section R703.8 Flashing
- AAMA 714-15 Specification for Liquid-Applied Flashing
- NFPA 285 Listed Component

Accepted fire rated systems: FF-D-1186, FW-D-1117, HW-D-1122, WW-D-1200, and BW-S-0006



AVAILABILITY

Immediately available from your local Tremco Sales Representative, Tremco Distributor, or Tremco Warehouse in 10.1 oz (300 mL) cartridges and 20 oz (600 mL) sausages.

COLORS

Available in Almond, Aluminum Stone, Anodized Aluminum, Beige, Black, Bronze, Buff, Dark Bronze, Gray, Gray Stone, Hartford Green, Ivory, Light Bronze, Limestone, Natural Clay, Off White, Precast White, Redwood Tan, Sandalwood, Stone, and White.

LIMITATIONS

Use with adequate ventilation. Always utilize the accompanying SDS for information on Personal Protective Equipment (PPE) and Health Hazards. Not recommended for use in chlorinated, potable, heavy or waste water. Although Dymonic 100 is paintable, this does not imply adhesion to and compatibility with all paints. Consult Tremco Technical Bulletin No. S-09-05 or Tremco Technical Services for more information.

WARRANTY

A repair or replacement warranty is available on all Tremco products. Visit https://www.tremcosealants.com/warranties/ for details.

| Rheological Properties ASTM C639 Non-sag (NS), 0" of sag in channel Hardness Properties ASTM C661 40 ± 5 Weight Loss ASTM C1246 Pass Skin Time ASTM C679 2 to 3 hr Tack Free Time 73.4" (23°C) 50% RH 6 to 8 hr Stain and Color Change ASTM C510 Pass Adhesion to Concrete ASTM C794 35 pli Adhesion to Concrete After Immersion ASTM C794 30 pli Adhesion to Green Concrete ASTM C794 >25 pli Adhesion to Damp Concrete ASTM C794 >20 pli Effects of Accelerated Aging ASTM C793 Pass Movement Capability ASTM C719 ± 50% Movement Capability ASTM C719 (Modified) +100/-50% Tensile Strength ASTM D412 350 to 450 psi Modulus at 100% ASTM D412 800 to 900% Modulus at 100% ASTM D412 75 to 85 psi Tear Strength ASTM D412 65 to 75 psi Fungal Resistance AN G21-15 Fungal Resistance = 0, No Growth | TYPICAL PHYSICAL PROPE | RTIES | |
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| Hardness Properties ASTM C661 40 ± 5 Weight Loss ASTM C1246 Pass Skin Time ASTM C679 2 to 3 hr Tack Free Time 73.4°F (23°C) 50% RH 6 to 8 hr Stain and Color Change ASTM C510 Pass Adhesion to Concrete ASTM C794 35 pli Adhesion to Concrete After Immersion ASTM C794 >25 pli Adhesion to Green Concrete ASTM C794 >20 pli Effects of Accelerated Aging ASTM C793 Pass Movement Capability ASTM C719 ± 50% Movement Capability ASTM C719 ± 50% Movement Capability ASTM C719 (Modified) ± 100/-50% Tensile Strength ASTM D412 350 to 450 psi % Elongation ASTM D412 800 to 900% Modulus at 100% ASTM D412 65 to 75 psi Teurs Strength ASTM D412 65 to 75 psi Fungal Resistance ASTM G21-15 Fungal Resistance = 0, No Growth Service Temperature 40 to 100 °F (4 to 37 °C) * Smoke Development, Fire Spread | PROPERTY | TEST METHOD | TYPICAL RESULTS |
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| % Elongation ASTM D412 800 to 900% Modulus at 100% ASTM D412 75 to 85 psi Tear Strength ASTM D412 65 to 75 psi Fungal Resistance ASTM G21-15 Fungal Resistance = 0, No Growth Service Temperature -40 to 180 °F (-40 to 82 °C) Application Temperature 40 to 100 °F (4 to 37 °C) * Smoke Development, Fire Spread ASTM E84 5, 5 Smoke Development, Fire Spread CAN S102 10, 10 Fire Resistance of Assembly NFPA 285 Pass Crack Bridging ASTM C1305 Pass | Movement Capability | ASTM C719 (Modified) | +100/-50% |
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| Crack Bridging ASTM C1305 Pass | Smoke Development, Fire Spread | CAN S102 | 10, 10 |
| * * | Fire Resistance of Assembly | NFPA 285 | Pass |
| Nail Seal Ability ASTM D1970 Section 7.9 Pass | Crack Bridging | ASTM C1305 | Pass |
| Additionary Aprily D1570 Section 7.5 1 d55 | Nail Seal Ability | ASTM D1970 Section 7.9 | Pass |

^{*}For temperatures below 40 °F, please refer to the Technical Bulletin, Cold Temperature Sealant Application Recommendations.

Please refer to our website at www.tremcosealants.com for the most up-to-date Product Data Sheets.

NOTE: All Tremco Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements.



D100-DS/0224

Tremco Construction Products Group (CPG) brings together Tremco CPG Inc. and its Dryvit and Nudura brands; Willseal; Prebuck LLC; Tremco Barrier Solutions, Inc.; Weatherproofing Technologies, Inc. and its Pure Air Control Services and Canam Building Envelope Specialists offerings; and Weatherproofing Technologies Canada, Inc.



