

PRO Installer®

E2S™ EXTERIOR ENVELOPE SYSTEM™

7100

Mold
Resistant

Polyurethane Sealant

Description:

7100 Polyurethane is a one component gun-grade, non-sag, moisture cure polyurethane sealant. This high performance product is designed with outstanding UV resistance and long term durability with a proven record in tough climates around the world. It is elastomeric with 50% joint movement capability.

Advantages:

- ▶ 50 year durability
- ▶ UV and weatherproof
- ▶ Permanently flexible
- ▶ Paintable
- ▶ Low VOC, fast cure
- ▶ Will not shrink
- ▶ Excellent adhesion and compatibility

Typical Uses:

- ▶ New construction and replacement installation
- ▶ Bedding window and door mounting flanges
- ▶ Perimeter joints around windows and doors
- ▶ Sealing rigid and flexible flashing
- ▶ Sealing in association with building papers and lath papers
- ▶ Sealing trim and molding
- ▶ Sealing door thresholds
- ▶ Sealing sill pans
- ▶ Wall expansion joints

Specification Compliance:

- ASTM C 920, Type S
Grade NS, Class 25,
Use NT, A, M, G, and O
- Federal Specification TT-S-00230 C
(Type II) Class A
Non-Sag, One Component
- Commercial Item Specification A-A-1556A
 - AAMA 808.3
- USDA acceptable in meat and poultry areas

Packaging and Color:

Color: White

Packaging: 300ml cartridges, 24 cartridges/carton
For other packaging contact Schnee-Morehead®, Inc.
customer service.

Pretest for Adhesion:

Due to the vast numbers and types of surface coatings and treatments available; i.e., certain protective coatings on aluminum, Schnee-Morehead®, Inc. recommends pretesting 7100 Polyurethane on surface in question. Pretesting for adhesion is intended to eliminate potential field problems. This testing will aid in determining the proper surface preparation method.

Surface Preparation:

- ▶ Surfaces must be clean, dry and free of oil or grease. Concrete and masonry surfaces must be free of foreign material contaminants, water repellents, form oils and laitance.
- ▶ Dust and loose particles should be blown out of joints.
- ▶ Stone surfaces must be cohesively sound and free of contaminants. Granite, limestone, marble and sand stone must be pre-tested for adhesion prior to sealant installation.
- ▶ Mill finish aluminum may contain an invisible oil film or oxide. Clean with a good degreasing solvent such as Xylene or toluene.
- ▶ Some high-performance coatings or unusual surface treatments may require abrasion of the surface with steel wool or fine emery paper during preparation. In cases where doubt exists, contact Schnee-Morehead®, Inc. technical service for recommendations.

Joint Design:

- ▶ Butt joint width should be ¼" minimum except between wood surfaces where width should be ½" minimum. Sealant depth should not exceed joint width, and in no case, should depth be greater than ½" or less than ¼".
- ▶ In fillet joints sealant should contact each surface ¼" minimum. Depth should be ¼" minimum.
- ▶ Beads for bedding or lap joints should be 3/8" in diameter.
- ▶ Use closed cell polyurethane backer rod to control joint depth. The rod should be 25% larger than the joint width. Do not puncture or prime the rod.
- ▶ A bond breaker tape should be used in shallow joints to prevent 3-sided adhesion.

Typical Properties:

Property	Value	Test Method
Tensile Strength	265 psi (1.8N/mm ²)	ASTM D 412
Elongation	550%	ASTM D 412
Peel Adhesion (concrete)	20 pli (80N)	ASTM D 794
Recovery	96% Min.	ASTM D 412
Modulus of Elasticity @25% @50% @100%	50 psi (0.34N/mm ²) 90 psi (0.62N/mm ²) 120 psi (0.83N/mm ²)	ASTM D 412
Hardness	30-35 Shore A	ASTM C 661
Total Joint Movement	50%	ASTM C 719
Service Temperature	-40°F – 200°F (-40°C – 93°C)	
Skin Time	2-4 Hours	
Cure Time	24-48 Hours	
Shelf Life	7100 Polyurethane will exhibit a 12 month shelf life from date of manufacture when stored below 80°F (27°C)	
*Note: Skin and cure times are dependent on temperature, humidity and porosity of the substrates. The times listed above are based on a 1/4" bead at 23°C, 50% RH. Lower humidity, cooler temperatures and non-porous substrates will lengthen these times.		

Clean-Up:

- ▶ Immediately remove all excess smears adjacent to the joint with Xylene, toluene or methyl ethyl ketone. Cured sealant must be removed mechanically.
- ▶ Tools and application equipment may also be cleaned with the same solvents.
Note: The use of these solvents (or other solvents) may be hazardous to your health. Use only in well ventilated areas. KEEP AWAY FROM OPEN FLAME. Read all labeling before use. Follow solvent manufacturer's recommendations and instructions for safe handling.

Precautions:

If this product is used in direct contact or in close proximity with any other sealant or elastomer, a compatibility test must be conducted by purchaser or user prior to acceptance. When applied in close proximity neutral cure silicones will prevent 7100 Polyurethane from curing. There will be no problem if either sealant is applied and allowed to cure prior to the application of the other. Use caution if applying the silicone first since 7100 Polyurethane will not adhere to silicone or its residue.

Application:

- ▶ Do not open until ready to use. Cut nozzle to desired bead size. Puncture seal inside spout.
- ▶ Fill joints from the deepest point to prevent air entrapment
- ▶ Tooling should be done in one continuous stroke. Tool the sealant with adequate pressure to spread the sealant against the backing material and onto the joint surface
- ▶ Excess sealant should be wiped from all surfaces while still uncured.
- ▶ If joint surfaces have been masked, remove masking tape immediately after tooling.
- ▶ When applying beads for bedding of mounting flanges make sure beads line up with fastener holes.

Application Limitations:

- ▶ 7100 Polyurethane must not be applied to frost bearing surfaces if temperature will remain below freezing for more than 24 hours.
- ▶ Not recommended for joints that will be subjected to continuous immersion.
- ▶ Tooling techniques using solvents or soapy solutions are not recommended.
- ▶ The suitability of this product, for each intended use, must be determined by the purchaser prior to acceptance.

First Aid:

Combustible. Contains calcium carbonates, toluene, mineral spirits and polyurethane resins. Uncured sealant vapors may cause respiratory tract irritation. Uncured sealant may cause eye, skin, nose and throat irritation. Keep away from heat, sparks and flame. Avoid contact with skin and eyes. Use adequate ventilation and avoid prolonged breathing of vapors. When applying, use ordinary sanitary measures.

SKIN CONTACT: Wash hands thoroughly with soap and water. EYE CONTACT: Flush eyes for 15 minutes with water. INHALATION: Do Not INDUCE VOMITING. If symptoms persist seek medical attention. For emergencies call 800-424-9300. Contact your supplier for Material Safety Data Sheet.

Complete technical information is available from Schnee-Morehead, Inc. For technical assistance, customer service and general information, call 1-800-878-7876 or visit www.pro-installer.com.

PRO INSTALLER® WINDOW AND DOOR INSTALLATION SYSTEM LIMITED WARRANTY:

PRO INSTALLER® WARRANTS TO THE ORIGINAL RETAIL PURCHASER THAT THE PRO INSTALLER® WINDOW AND DOOR INSTALLATION WILL BE FREE FROM LEAKS CAUSED BY DEFECTS IN THE MATERIAL'S OR MANUFACTURING FOR A PERIOD OF FIFTEEN YEARS (15) FROM THE DATE OF PURCHASE WHEN THE SYSTEM IS INSTALLED ACCORDING TO THE MANUFACTURERS WRITTEN INSTRUCTIONS AND ACCEPTED INDUSTRY STANDARDS. THIS WARRANTY DOES NOT APPLY TO MISAPPLICATION OR POOR WORKMANSHIP IN THE APPLICATION OF THE SYSTEM AND SPECIFICALLY EXCLUDES: (A) NATURAL CAUSES SUCH AS ACTS OF GOD, EARTHQUAKE, LIGHTNING, HURRICANE, FIRE ETC, (B) DISINTEGRATION OF THE UNDERLYING SUBSTRATES, (C) MECHANICAL DAMAGE TO THE SYSTEM CAUSED BY INDIVIDUALS, TOOLS OR OTHER OUTSIDE AGENTS. PRO INSTALLER®S ONLY OBLIGATION SHALL BE TO RE-SUPPLY OR REFUND, AT ITS OPTION, THE PURCHASE PRICE OF THE PORTION OF THE DEFECTIVE SYSTEM WHERE THE LEAKS OCCURRED. PRO INSTALLER® SHALL BE LIABLE FOR NO ADDITIONAL REMEDIES, HEREBY EXPRESSLY DENYING ANY OTHER CLAIMS FOR DAMAGES, WHETHER DIRECT OR INDIRECT, CONSEQUENTIAL OR INCIDENTAL, INCLUDING BUT NOT LIMITED TO PROPERTY DAMAGE, PERSONAL INJURY TO THE BUYER OR TO THIRD PARTIES AND LOSS OF BUSINESS OR PROFIT ARISING FROM THE USE OR INABILITY TO USE THE SYSTEM. ANY IMPLIED WARRANTIES ARISING UNDER STATE LAW ARE LIMITED TO THE DURATION AND TERMS OF THIS EXPRESS WARRANTY.

THIS WARRANTY WILL BE NULL AND VOID IF SYSTEM COMPONENTS MADE BY MANUFACTURERS OTHER THAN PRO INSTALLER® ARE USED AS PART OF THE WINDOW AND DOOR INSTALLATION.

CURRENT SYSTEM COMPONENTS:

PRO INSTALLER® 7100 POLYURETHANE INSTALLATION SEALANT
PRO INSTALLER® 3300 FLASHING PRODUCT LINE, SAF™, PROSAF™, PROSAF™flex, PRO Flash™
PRO INSTALLER® 4300 POLYURETHANE AIR AND ENERGY POLYURETHANE FOAM
PRO INSTALLER® Mold Blocker™ Housewrap

ANY FUTURE SYSTEM COMPONENTS WILL ALSO BE COVERED BY THE ABOVE LIMITED WARRANTY.

Pro Installer®

Manufactured By:
Schnee-Morehead®, Inc.
111 North Nursery Road
Irving, Texas 75060
Phone: 972-438-9111 Fax: 972-554-3939
www.pro-installer.com