



PERMATHANE®

SM7108

Polyurethane Sealant / Adhesive

TECHNICAL DATA

PRODUCT DESCRIPTION:

Permathane® SM7108 is a one component, gun-grade, non-sag, moisture-cure polyurethane sealant designed to skin and cure rapidly. This high performance product is designed with outstanding UV resistance and long term durability. Excellent adhesion is obtained on a wide variety of materials.

ADVANTAGE:

- Accommodates 50% joint movement
- Permanently flexible, excellent weatherability
- Easy to gun – Easy to tool
- Cures to a tough, durable, elastic consistency with excellent cut and tear resistance
- Paintable – non-sticky after cure
- VOC Compliant
- Primerless adhesion to substrates including galvanized steel, aluminum, concrete, glass, Galvalume®, Zinalume®, Kynar 500®, wood, vinyl and fiberglass.

TYPICAL USES:

Permathane® SM7108 is designed to seal construction joint details.

- Waterproof rivet seams and roof rails
- Perimeter joints around windows and doors
- Bonding sidewalls in RV's and trucks
- Sealing vehicle bodies, cab construction, underbody compartments and roofing
- Sealing corner moldings, fabricated roof-lap seams, bumper assemblies and body-to-cab joints in motor homes
- PCC holding tanks, PCC cooling tower basins
- Sealing door hinges, skylights and portholes
- Air conditioning equipment, flashing and gutters
- Masonry Expansion joints
- Between construction materials of dissimilar expansion coefficients
- Sealing in association with building papers and lath papers

SPECIFICATION COMPLIANCE:

Permathane® SM7108 meets or exceeds the test requirements of:

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| <ul style="list-style-type: none"> ▪ TT-S-00230 C (Type II) Class A, ▪ Non-sag, One-Component ▪ ASTM C 920 Type S, Grade NS, Class 25, Use-NT, A, M, G and O ▪ Commercial item Specification A-A-1556A ▪ AAMA 808.3 (Exterior Sealing Compound) ▪ USDA acceptable for use in meat and poultry areas |
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TYPICAL PROPERTIES:

| Property | Typical Value | Test Method |
|---|---|-------------|
| Peel Adhesion: | 15 pli minimum | ASTM C794 |
| Tensile Maximum: | 300 psi (2.07 N/mm ²) | ASTM D412 |
| Elongation: | 500-600% | ASTM D412 |
| Sag: | None | ASTM C639 |
| Hardness (Shore A): | 30-40 | ASTM C 661 |
| Service Temperature Range: | -40°F to 200°F, (-40°C to 93.3°C) | |
| Water Resistance: | Passes | AAMA 800 |
| Flash Point: | 148°F (64.4°C) | ASTM D56 |
| Shelf Life: | 12 months when stored at or below 80°F. | |
| Skin Time: | 2-4 hours | |
| Cure Time: | 24-48 hours | |
| * Skin and cure times are dependant on temperature, humidity, and porosity of the substrates. The above times are based on a ¼" bead at 75°F and 50% relative humidity. Low humidity, cooler temperature and non-porous substrates will lengthen these times. | | |

PRETEST FOR ADHESION:

Due to the number and types of substrates available, pretesting for adhesion is recommended. Testing on samples of materials to which it will be applied is intended to eliminate potential field problems and help determine proper surface preparation.

APPLICATION:

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.
- Stone surfaces must be cohesively sound and free of contaminants. Granite, limestone, marble and sandstone 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.
- Many 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:

- Recommended joint width is ¼" to 1". Sealant depth should not exceed joint width, and in case, should depth be greater than ½" or less than ¼"
- Use of closed cell polyethylene backer-rod approximately 25% larger than the width of the joint is recommended for deep joints. A bond-breaker film should be used in shallow joints to prevent three-sided adhesion.
- Do not puncture or prime the backer-rod.

Priming:

- It is expected that SM7108 will adhere and perform in uncontaminated joints with most common substrates, without the use of a primer.
- Joints subjected to intermittent immersion or vertical joints subjected to rain should perform without the need of a primer.
- Priming of masonry or other porous joints is recommended only if the joints will be subjected to prolonged or continuous immersion.

APPLICATION LIMITATIONS:

- SM7108 must not be applied to frost-bearing surfaces or if temperature will be below freezing within 24 hours.
- Tooling techniques using solvents or soapy solutions are not recommended.
- All surfaces must be evaluated for adhesion prior to product acceptance.
- The suitability of this product, for each intended use, must be determined by the purchaser prior to acceptance.

Not recommended for:

- a) Unprimed masonry joints that will be subjected to continuous water immersion.
- b) Joints that are contaminated with grease, wax, corrosion, bitumen or cement laitance.
- c) Horizontal joints in floors or decks where physical abuse is encountered.
- d) Special architectural finishes without proper testing.

TOOLING:

Tooling of freshly applied sealant should be done in one continuous stroke. Tool the sealant with adequate pressure to spread the sealant against the back-up material and onto the joint surfaces. Excess sealant should be dry-wiped from all surfaces while still uncured. If joint surfaces have been masked, remove masking tape immediately after tooling. Cured sealant is very difficult to remove.

CLEAN UP:

Immediately remove all excess sealant smears adjacent to the joint with Xylene, toluene or methyl ethyl ketone. 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 the purchaser or user prior to use. When applied in close proximity, neutral cure silicones will prevent SM7108 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 SM7100 will not adhere to silicone or its residue.

Avoid skin and eye contact. On contact, uncured sealant could cause irritation to the skin and eyes. In case of eye contact, flush eyes with warm water for 15 minutes, call a physician. For skin contact remove sealant with a paper towel. If swallowed, do not induce vomiting, call a physician. **KEEP OUT OF REACH OF CHILDREN.** This product is manufactured for industrial use only.

FIRST AID:

KEEP OUT OF REACH OF CHILDREN.

Avoid skin and eye contact. Avoid breathing of direct concentrated vapors. Use with adequate ventilation. In the case of eye contact flush eyes with warm water for 15 minutes, call a physician. For skin contact, remove sealant with a paper towel. If swallowed do not induce vomiting, call a physician. This product is manufactured for professional and industrial use only. Refer to the Material Safety Data Sheet (MSDS) for further information. For medical emergency only call ChemTrac 1800-424-9300

Galvalume is a registered trademark of BIEC International, Inc. Kynar 500 is a registered trademark of Elf Atochem North America, Inc. Zinalume is a registered trademark of BHP steel.

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