



ChemMasters®

SPECIALTY CONSTRUCTION PRODUCTS

Silencure™ SRT

Low VOC, Acrylic
Curing & Sealing
Compound With Silane
U.S. Patent 7402623



P R O D U C T D A T A

DESCRIPTION

ChemMasters' **Silencure Solvent Replacement Technology—SRT** is a patented pure acrylic copolymer curing and sealing compound for new concrete installations. When applied to fresh concrete **Silencure SRT** produces a non yellowing clear continuous film that effectively cures fresh concrete and provides a tough protective acrylic film.

Silencure SRT's unique technology forms an effective curing and sealing film with a proprietary blend of siloxanes that penetrate capillary pores of fresh concrete forming a silicone matrix within the concrete preventing water and salt penetration.

Unlike other silane or siloxane treatments **Silencure SRT** is applied to fresh concrete curing to ASTM C 309 and AASHTO M-148, Type 1 & 1D, Class A&B and is designed to meet most State D.O.T. Requirements for NCHRP 244, Series II & Series IV water absorption and chloride protection. There is no need to wait 28 days before applying a product for long term protection.

USES

- Cure fresh exterior concrete. Curing minimizes crazing and shrinkage cracks. **Silencure SRT** forms a film that holds moisture in fresh concrete helping cement fully hydrate. This process helps maximize the strength and durability of concrete.
- Provide long term protection to exterior concrete from damaging effects of water and salt penetration. **Silencure SRT's** unique siloxane formulation provides protection from damage due to freeze thaw cycles and lasts far longer than ordinary film forming cure and seal products.

ADVANTAGES

- **Silencure SRT** can be applied to concrete surfaces such as broom, colored, and hard steel trowel.
- **Silencure SRT** eliminates the 28 day 3 step process to provide penetrating protection to newly placed concrete. A single step application of **Silencure SRT** to final finish concrete provides the improved protection of a penetrating sealer and reduces labor costs putting concrete into service weeks sooner.

Packaging

5 gal (18.9 liter)	36 per pallet	F1226.05
55 gal (208 liter)	4 / pallet	F1226.55

TECHNICAL DATA

APPLICABLE STANDARDS

- Meets many States DOT requirements for NCHRP 244 Series II and IV chloride protection
- ASTM C 309, Type 1* Class A&B, Standard Specification for Liquid Membrane Forming Compounds for Curing Concrete
- AASHTO M 148, Type 1* Class A & B, Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete
- Complies with National Volatile Organic Compound Emission Standards for Architectural Coatings, Federal EPA Regulation 40 CFR Part 59 <100 g/L

* *Can be ordered with fugitive dye to meet Type ID requirements*

Estimating Guide To Meet Applicable Standards Above

Finish	ft ² /gallon	m ² /liter
Fresh Broom	200	5
Float	250	6
Hard Steel Trowel	300	7
Formed Walls	450	11

Physical Properties

VOC content	< 125 g/L
Flash Point	>212°F (>100°C)
ASTM C-156 Moisture Retention	0.30 kg/m ² per 72 Hrs

Drying Time @ 70°F (21°C) with 50% R.H.

Dry	Hours
To Touch	1
Light Traffic	12
Heavy Traffic	24



ChemMasters®

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May 2018

DIRECTIONS

Mixing: Do not dilute. **Silencure SRT** is packaged ready to use and only requires mild agitation or stirring before applying or filling equipment

Application:

For Best Results: Do not apply **Silencure SRT** if the temperature will drop below 50°F (10°C) within two hours of application. Protect people, vehicles, property, plants, windows, and all non masonry surfaces from product splash, residue, fumes, and wind drift. Apply **Silencure SRT** after all bleed water has dissipated and within 2 hours of final finish. Applying **Silencure SRT** after two hours may result in poor penetration and lead to blotchiness, blistering and peeling. Do not apply over free standing water.

Apply **Silencure SRT** with a low pressure, airless, sprayer equipped with a fan nozzle 0.50 to 1.0 gpm or a hand pressurized sprayer with a 'Cats Eye' nozzle (minimum orifice of 0.022 to 0.032") ensure spray equipment is clean and dry before adding **Silencure SRT**.

The optimum spray pattern is an 8 to 12" fan. Hold sprayer tip 8 to 12" from the surface of concrete. Apply uniformly leaving no pinholes or gaps. Do not allow material to puddle. **Silencure SRT** may be applied with a short nap roller when application will not mar surface and will be complete within 2 hours of final finish.

Formed Concrete Walls: If walls are not to receive further treatment, apply immediately after stripping forms or following rubbing operations at 450 ft²/gal (11m²/L).

Older Concrete: Clean thoroughly with detergent and high pressure water removing any dirt, dust, paint, oil, grease, curing or sealing membranes, or other contaminants that may prevent absorption or adhesion of **Silencure SRT**.

CLEANUP

Clean tools and equipment used in applying **Silencure SRT** with warm water and detergent immediately after use.

STORAGE

Store tightly closed containers away from direct sunlight and sources of heat or flame. Shelf life is 1 year from date of manufacture.

LIMITATIONS

- **Silencure SRT** has an application window that begins when all bleed water has dissipated, extending to within 2 hrs of final finishing. If it cannot be completed within that window use a different film forming curing compound or wet cure the concrete.

- **Silencure SRT** is not compatible with resilient floor covering adhesives and is not intended for use on surfaces to receive concrete overlays or toppings. Consult ChemMasters' Technical Service Department for compatibility with surface treatments. Always test for compatibility and adhesion.
- Solvent, gasoline, and hydraulic fluids must be cleaned quickly to prevent coating damage.
- Do not apply **Silencure SRT** to joints or channels scheduled to receive elastomeric caulks.
- Do not use if ambient temperature is below 50°F (10°C). For best results condition material to a minimum of 60°F (15°C) prior to application. Application in cooler conditions will extend cure time and may impact final appearance.
- All label precautions and Safety Data Sheet must be fully understood before using.
- Protect adjoining glass, metal, or painted surfaces that may be etched or damaged by overspray or splash. Clean immediately with soap and water before drying. Use mineral spirits to remove dry material.
- Quality curing or sealing compounds may darken or highlight the subtle color variations naturally present in concrete.

Precautions:

WARNING: May be harmful if swallowed. Causes eye irritation. May be harmful if inhaled. May cause respiratory irritation.

Precautionary Statements: Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands and skin thoroughly after handling. Use only outdoors or in a well-ventilated area.

KEEP OUT OF REACH OF CHILDREN.

This Product is Formulated and Labeled for Industrial and Commercial Use Only

FOR BEST RESULTS AND SAFEST USAGE, USER IS SPECIFICALLY DIRECTED TO CONSULT THE CURRENT MATERIAL SAFETY DATA SHEET AND PACKAGE LABEL FOR THIS PRODUCT

We warrant our products to meet our published specifications and to be free from defects in materials and workmanship to the acceptable quality levels defined in these specifications. If acceptable quality levels are not specified, the acceptable quality levels will be those normally supplied by us for the product. We make no guarantee of the results to be obtained from the use of our products. The determination as to the adaptability of any of our products to the specific needs of the Buyer is solely Buyer's prerogative and responsibility. We are glad to offer suggestions on the use of our products. Nevertheless, there are no warranties given except such expresses warranties offered in connection with the sale of a particular product. Our liability shall be limited to replacement of, or refund of an amount not to exceed the purchase price attributed to, the goods as to which such claim is made. Our selection of one of these alternatives shall be Buyer's exclusive remedy. IN NO CASE SHALL WE BE LIABLE FOR CONSEQUENTIAL OR SPECIAL DAMAGES, EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, CO-CONDITIONS AND REPRESENTATIONS, EITHER EXPRESSED OR IMPLIED, WHETHER ARISING UNDER ANY STATUTE, COMMON LAW, USAGE OR TRADE, COURSE OF DEALING OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.