



# ChemMasters®

**SPECIALTY CONSTRUCTION PRODUCTS**

## Silencure™ SRT

Low-VOC, Water-Based,  
Non-Yellowing, One Step  
Acrylic Cure & Protect  
with Penetrating Siloxane Treatment



**U.S. Patent 7402623**

**P R O D U C T**

**D A T A**

### DESCRIPTION

ChemMasters' **Silencure SRT (Solvent Replacement Technology)** is a patented water-based, acrylic cure and protect for new concrete installations. When applied to fresh concrete **Silencure SRT** produces a non-yellowing, clear continuous film that effectively cures fresh concrete to ASTM C309 specifications.

**Silencure SRT's** unique technology forms an effective curing film with a proprietary blend of siloxanes that penetrate capillaries and pores of fresh concrete forming a silicone matrix within the concrete preventing damage from freeze/thaw cycles, deicing chemicals and chloride penetration.

Unlike other silane or siloxane treatments **Silencure SRT** will cure fresh concrete to ASTM C309 and AASHTO M-148 specifications, is designed to meet most applicable State Department of Transportation (DOT) Requirements of NCHRP 244, Series II & Series IV, and eliminates the need to wait 28 days before application of a silane treatment.

### USES

- Cure fresh interior or 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.
- **Silencure SRT's** unique siloxane formulation prevents damage from freeze/thaw cycles, deicing chemicals and chloride penetration and lasts far longer than ordinary film forming cure products.

### ADVANTAGES

- **Silencure SRT** eliminates the 28 day 3 step process to provide penetrating protection to newly placed concrete. A single step application of **Silencure SRT** cures concrete and includes a penetrating silane. Reduces labor costs by putting concrete into service weeks sooner.
- The benefits of **Silencure SRT** last far longer than ordinary film forming cure products.

#### 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 I\* 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 <sup>2</sup> /gallon	m <sup>2</sup> /liter
Fresh Broom Finish	300	5

#### Physical Properties

VOC content	< 125 g/L
Flash Point	>212°F (>100°C)
ASTM C-156 Moisture Retention	0.30 kg/m <sup>2</sup> 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® Inc.**

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## 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 uniformly leaving no pinholes or gaps. Do not allow the material to puddle.

**Spray Apply:** Use a low pressure, solvent resistant, 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 inch fan. Hold sprayer tip 8 to 12 inches from the surface of the concrete.

**Roller Apply:** Use a short nap (1/4" max) solvent resistant roller. An optional second coat may be applied to a tack free surface at right angles to the first.

**Formed Concrete Walls:** If walls are not to receive further treatment, apply immediately after stripping forms or following rubbing operations at 450 ft<sup>2</sup>/gal (11m<sup>2</sup>/L).

## 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.
- 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 surface damage.
- Do not apply 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 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.

**All label precautions and Safety Data Sheet must be fully understood before using.**

**For professional use only.  
Keep out of reach of children.**

## THIS PRODUCT IS FOR COMMERCIAL USE ONLY – IT IS NOT A CONSUMER PRODUCT.

Before using this product read entirely this paragraph and the Manufacturer's Warranty and Limitations of Liability at [Chem-Masters.net/Warranty.php](http://Chem-Masters.net/Warranty.php) (or by using the adjacent QR Code) incorporated herein (collectively the "Terms"). To reject any of the Terms buyer must return the unopened product container at once to the seller from which it was purchased. By opening or using this product buyer accepts without objection or modification all Terms. Subject to applicable law, **MANUFACTURER DISCLAIMS ALL IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE**, and buyer agrees that in lieu of all other remedies in manufacturers sole discretion it will either replace defective product or refund the reasonable purchase price, and in no event may you recover from manufacturer any special, incidental or consequential damages even if it was aware of the possibility of such damages.

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