



# ChemMasters®

**SPECIALTY CONSTRUCTION PRODUCTS**

## Silencure™ -A

Distributed By:



Cleveland 1-800-362-9267  
Canton 1-877-258-7601  
Toledo 1-800-860-3352  
www.chasehipps.com

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-A** is a patented pure acrylic copolymer curing and sealing compound for new concrete installations. When applied to fresh concrete **Silencure-A** produces a non-yellowing clear continuous film that effectively cures fresh concrete and provides a tough protective acrylic film.

**Silencure-A'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 -A** is applied to fresh concrete curing to ASTM C 309 and AASHTO M-148, Type 1 & 1D (with added fugitive dye) Class A&B and is designed to meet applicable State Department of Transportation (DOT) Requirements of 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 broom-finished exterior concrete. Curing minimizes crazing and shrinkage cracks. **Silencure-A** forms a film that holds moisture in fresh concrete helping cement fully hydrate. This process helps maximize the strength and durability of concrete.
- Provides long term protection to exterior concrete from damaging effects of water and salt penetration. **Silencure-A's** unique silane formulation provides protection from damage due to freeze thaw cycles and lasts far longer than ordinary film forming cure and seal products.

### ADVANTAGES

- **Silencure-A** eliminates the 28 day 3 step process to provide penetrating protection to newly placed concrete. A single step application of **Silencure-A** 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	F1237.05
55 gal (208 liter)	4 / pallet	F1237.55

### TECHNICAL DATA

#### APPLICABLE STANDARDS

- Meets many States' DOT requirements of 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 <350 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	150	4
Formed Walls	450	11

### Physical Properties

VOC content	< 350 g/L
Flash Point	1°F (-17°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	8
Heavy Traffic	12



**ChemMasters®**

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## DIRECTIONS

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

### Application:

**For Best Results:** Do not apply **Silencure-A** 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-A** after all bleed water has dissipated and within 2 hours of final finish. Applying **Silencure-A** after two hours may result in poor penetration and lead to blotchiness, blistering and peeling. Do not apply over free standing water. Apply **Silencure-A** with a low pressure, airless, sprayer equipped with a fan nozzle 0.50 to 1.0 gallon per minute 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 material. The optimum spray pattern is an 8 to 12" fan. Hold sprayer tip 8 to 12" from the surface of the concrete. Apply uniformly leaving no pinholes or gaps. Do not allow the material to puddle.

**Silencure-A** may be applied with a short nap (1/4") 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 ft<sup>2</sup>/gal (11m<sup>2</sup>/L)

## CLEANUP

Clean tools and equipment used in applying **Silencure-A** with **Polyseal Solvent**<sup>TM</sup> or xylene.

## STORAGE

Store tightly closed containers away from direct sunlight and sources of heat or flame. Shelf life is 2 years from date of manufacture.

## LIMITATIONS

- **Silencure-A** is not for use on interior surfaces or on hard steel trowel finished floors. Application may result in blotchiness or peeling. Use **Silencure SRT** for these applications.
- **Silencure-A** 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-A** is not compatible with resilient floor covering adhesives and 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-A** to joints or channels scheduled to receive elastomeric caulks.
- Do not use if the ambient or substrate temperature is below 50°F (10°C). For best results condition material to a minimum of 70°F (21°C). Application in cooler conditions will extend cure time and may impact final appearance.
- The Safety Data Sheet and all label precautions must be fully understood before using product.
- Protect adjoining glass, metal or painted surfaces that may be etched or damaged by overspray or splash. Clean with mineral spirits to remove dry material.
- Quality curing or sealing compounds may darken or highlight the color variations naturally present in concrete.

### Precautions:

**Danger:** Highly Flammable Liquid and Vapor. Suspected of Causing Cancer. Toxic to aquatic life with long lasting effects. May be harmful if swallowed. May be harmful if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May be harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness.

**Precautionary Statements:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond the container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands and skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

**Keep out of reach of children.**

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