



ChemMasters®

SPECIALTY CONSTRUCTION PRODUCTS

Silencure™-A

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 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 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-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 ² /gallon	m ² /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 ² 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 40°F (4°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** within two hours after final finishing the concrete and all bleed water has dissipated. Applying **Silencure-A** on steel trowel concrete after two hours may result in poor penetration and lead to blistering or 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 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 material. The optimum spray pattern is an 8 to 12" fan. Hold sprayer tip 6 to 8" 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 roller when application will not mar surface and will be complete within 2 hours of final finish. Or in tight areas to prevent overspray see '**LIMITATIONS**'.

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 adhesion of **Silencure-A**.

CLEANUP

Clean tools and equipment used in applying **Silencure-A** with Polyseal Solvent™ 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. The silane in **Silencure-A** will not penetrate hard smooth concrete and bond properly.
- **Silencure-A** must be applied within 2 hrs of final finishing. If it cannot be completed within 2 hrs use a film forming curing compound or wet cure the concrete.
- **Silencure-A** is not compatible with resilient floor covering adhesives it may prevent adhesive bonding. It 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 deterioration of the film.
- Do not apply **Silencure-A** to joints or channels scheduled to receive elastomeric caulks.
- Do not use if ambient temperature is below 40°F (4°C). For best results condition material to a minimum of 70°F (21°C).
- All label precautions and Safety Data Sheet must be fully understood before using this product.
- Avoid overspray or splash on adjoining surfaces such as glass, metal, masonry, painted, vinyl, etc. with **Silencure-A** to avoid undesirable effects. Clean surfaces with mineral spirits before **Silencure-A** dries.
- Quality curing or sealing compounds may darken or highlight the color variations naturally present in concrete.

CAUTION

- Flammable Liquid: Keep away from heat or open flame. Use with adequate ventilation.
- May cause skin, eye, or respiratory tract irritation. Do not take internally.
- All label precautions and the Safety Data Sheet must be fully understood before using this product.

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.