



ChemMasters

CHEMISIL

SODIUM SILICATE HARDENER AND DUSTPROOFER

SPECIALTY CONSTRUCTION PRODUCTS

P R O D U C T D A T A

DESCRIPTION

Chemisil is a clear, water based liquid chemical floor hardener which reacts with the free lime and calcium carbonate in concrete. It fills and seals the pores and capillaries to harden and dustproof surfaces.

USES

- Dusting interior or exterior concrete surfaces
- Horizontal or vertical applications
- Floor slabs, formed and poured walls
- Curing agent for surfaces scheduled to receive subsequent treatments, Chemisil Plus or coverings
- Hardens soft, punky surfaces caused by premature freezing of concrete surfaces
- Halts progression of deterioration caused by carbonation

ADVANTAGES

- Seals, hardens and dustproofs in one operation
- 0% V.O.C. content, no odor
- Compatible with a majority of adhesives for resilient floor coverings
- May be used in food storage or occupied areas
- Increases resistance to penetration of liquids and oils
- Reduces labor cost of subsequent construction clean up

TECHNICAL DATA

Chemisil dries in 1 hour at 70°F (21°C) at 50% relative humidity. Cooler temperatures slow drying time. Allow surface to dry thoroughly prior to applying optional second coat or adhesives.

Flash Point	NONE	
V.O.C. Content	0%	
Degrees Baume	11°	
Weight	9 lbs./gal.	4 Kg/L

ESTIMATING GUIDE

Coverage is dependent on surface texture, degree of deterioration, rate of absorption and porosity. Optional second coat increases application rate.

	Ft. ² /gal.	M ² /L
Deteriorated Surfaces	200-300	5-7
Steel Trowelled Surfaces	500-600	12-14
Vertical Surfaces	400-500	10-12
Broomed Surfaces	300-400	7-10
Curing Agent	200	5
Surfaces to Receive Floor Covering Adhesives	500-600	12-14

PACKAGING

Chemisil is available in 5 U.S. gallon (18.9 Liter) pails or 55 U.S. gallon (208 Liter) drums.

APPLICATION

MIXING: **Chemisil** is ready to use and does not require special mixing. Do not dilute.

CURING APPLICATION: No special surface preparation is required when using **Chemisil** as curing agent. Apply **Chemisil** to freshly poured concrete immediately following final finishing operations and when surface has stiffened sufficiently to support applicator. Spray Chemisil onto surface at an even rate of 200 square feet per gallon.

Do not allow material to puddle. Use squeegees to redistribute material from low to high spots.

SURFACE PREPARATION of Older Concrete: Thoroughly clean surfaces to be treated. Remove any dust, dirt, oil, grease, curing or sealing membranes or other contaminants that would prevent penetration. Allow surface to dry completely prior to application of **Chemisil**.

APPLICATION OVER OLDER CONCRETE: Apply **Chemisil** with an airless sprayer, brush or roller forming a continuous film. Do not over apply or allow to puddle. Allow to dry. For optimum performance, apply second coat at an increased coverage rate.

Area may be opened to foot traffic when dry. Wait 24 hours before opening to wheeled or heavy traffic.



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CLEAN UP

Clean tools and equipment with warm water and detergent.

STORAGE

Protect from freezing. Store tightly sealed containers in heated area. Shelf life is two years from date of manufacture.

LIMITATIONS

- **Chemisil** stains glass and metal. If overspray occurs, immediately wash surface with warm water.
- Over-application will cause a crystalline glaze or noticeable whitening of the surface. If this occurs, flush surface with warm or hot water.
- Integrally colored concrete must be a minimum of 60 days old prior to application of **Chemisil**.

CAUTION

Floors are slippery until dry.

May cause eye burns on direct contact. Over exposure may cause skin and respiratory tract irritation.

Do not take internally. Keep out of reach of children.

Make certain that the most current versions of the product data sheet and MSDS are being used. Go to www.chemmasters.net or contact ChemMasters customer service at 1.800.486.7866 to verify the most current version.

Proper application is the responsibility of the user. ChemMasters can only make technical recommendations and cannot provide quality control on the jobsite.

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.