

SONOSIL®

Curing aid, hardening and dustproofing compound for concrete

PRODUCT DATA

3 03390

Concrete Curing

Description

Sonosil® is a clear water-soluble, sodium-silicate-based hardening and dustproofing compound. It is easy to apply, leaves no residue, dries quickly, and is available with fugitive red dye for even application.

Yield

See Chart on page 2.

Packaging

Sonosil®:
5 gallon pails (18.9 L)
55 gallon drums (208 L)

Concentrate:
11 gallons (41.6 L) in a 55 gallon (208 L) drum; must be filled with soft potable water

Fugitive red dye:
1 pint (.47 L) container: use 1 pt/55 gallon drum (0.47 L/208 L drum);
1.5 oz/5 gallon pail (44 ml/18.9 L pail).

Color

Clear

Shelf Life

1 year when properly stored

Storage

Store in unopened containers in cool, clean, dry conditions. Do not allow to freeze in the container; do not store below 35° F (2° C).

Features

- Residue free
- Available with fugitive red dye
- Soil and grease easily removed
- Water soluble
- Easy to apply, quick drying

Benefits

- Compatible with most resilient floor-covering adhesives
- Helps ensure even coverage
- Promotes fast, simpler post-construction clean up
- Easy to flush spray equipment and clean other equipment
- Saves labor costs; speeds production

Where to Use

APPLICATION

- Floors and walls
- Decks
- Docks
- Ramps

LOCATION

- Interior and exterior

SUBSTRATE

- Freshly placed concrete
- Newly cured bare concrete
- Aged concrete

How to Apply

Surface Preparation

GENERAL CLEAN UP

1. Remove all dirt, dust, oil, grease, asphalt, foreign matter, and parting compounds. Use detergents or caustics as needed.
2. Rinse and then remove surface water.

FRESHLY PLACED CONCRETE

1. Before application, complete finishing operations and allow visible surface water to disappear.
2. Surface must be able to bear foot traffic without marring or damaging the concrete.

NEWLY CURED BARE CONCRETE

1. Where concrete has not been membrane-cured, perform after-construction clean up.
2. Level any areas gouged by trades and follow general clean-up instructions.

Technical Data

Sonosil® is sodium-silicate-based.

Compliances

- USDA compliant for use in meat and poultry areas

Yield

Approximate ft²/gal per coat

	ROUGH FINISH	FINELY TEXTURED	WELL TROWELED
Newly placed concrete	300	400	500
Newly cured bare concrete	200	300	400
Aged concrete	150	200	250
Vertical work	—	200	300

For best results for succeeding coats, increase coverage rate for each succeeding coat. Coverage varies with application method and the texture and porosity of the surface.

AGED CONCRETE OR TERRAZZO

1. Mechanically remove aged membranes.
2. Restore surface soundness by patching, grouting, and crack-filling.
3. Follow general clean-up instructions.

VERTICAL WORK

1. After form stripping, repair and refine surface to meet job requirements. Remove parting compound remnants.
2. Surfaces must be clean and free of visible surface water.

Application

1. Apply Sonosil® by brush, squeegee, or hand sprayer. Use spray application for best results.
2. Always apply to form a continuous, uniform film over the surface. Brush out puddles and runs immediately.
3. Under general conditions, 1 coat produces a light-duty surface. Surface wearability increases proportionally with each additional application. Coverage is influenced by surface conditions and porosity, as well as job requirements. Refer to the yield chart above.

NOTE: It is the responsibility of the user to adjust the curing rate to properly regulate the hydration of the concrete. Two applications may be required. The rates given are approximate, assuming average concrete finish, temperature, and admixture used.

4. Each application must be thoroughly dried before the next is applied. (See Drying Time.)
5. When used as a curing aid, apply to edges after forms are removed.

Clean Up

Clean brushes, tools, and equipment and flush sprayers with clean water immediately after use.

Drying Time

1. Sonosil® penetrates in approximately 1/2 – 1 hour per application, influenced somewhat by temperature, humidity, and job conditions. Each application must penetrate thoroughly before proceeding.
2. Sonosil® must completely dry before accepting any traffic. Allow 24 hours before subjecting to heavy traffic.

For Best Performance

- Sonosil® is not recommended where there is heavy-duty or steel-wheel traffic.
- Winter placements using temporary heat sources, such as torpedo heaters, will require additional Sonosil®.
- Protect Sonosil® from freezing. In event of freeze/thaw, stir or agitate to uniformity before using. If separation is persistent, discard Sonosil®—DO NOT APPLY.
- Applications involving pozzolonic additives will require additional Sonosil®.
- Applications under high-humidity conditions may produce a slippery film. This may be removed with clean water and a stiff-bristled broom.
- Application temperatures greater than 80° F (27° C) or low humidity will require additional Sonosil®.

- Wait at least 7 days before applying tile or floor covering adhesives over Sonosil®. Before applying adhesives, wash surface with water and detergent and allow to thoroughly dry. A test application is mandatory.
- Sonneborn is not responsible for carbonation, microcracking, checking, crazing, or porous finishes.
- Protect metal, glass, wood, paint, and brick from contact with Sonosil®. If Sonosil® is accidentally applied to these surfaces, wash with clean water within 30 minutes.
- For subsequent coating applications, perform proper surface preparation and consult the coatings manufacturer for more instructions.
- Fugitive red dye will dissipate upon exposure to UV light.
- Make certain the most current versions of product data sheet and MSDS are being used; call Customer Service (1-800-433-9517) to verify the most current versions.
- Proper application is the responsibility of the user. Field visits by Degussa personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

Health and Safety

SONOSIL®

Warning

Sonosil® contains sodium silicate.

Risks

Severe skin and eye irritant. Contact with skin or eyes may cause burns. Causes respiratory irritation. Ingestion may cause burns or other harm.

INTENTIONAL MISUSE BY DELIBERATELY INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

Precautions

KEEP OUT OF THE REACH OF CHILDREN. Prevent contact with skin, eyes and clothing. Wash thoroughly after handling. DO NOT breathe vapors. Use only with adequate ventilation. Keep container closed. DO NOT take internally. Use impervious gloves, eye protection and if the TLV is exceeded or if used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable federal, state and local regulations. All label warnings must be observed until container is commercially cleaned or reconditioned.

First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes. SEEK IMMEDIATE MEDICAL ATTENTION. In case of skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION.

Refer to Material Safety Data Sheet (MSDS) for further information.

Proposition 65

This product does not knowingly contain materials listed by the state of California as known to cause cancer, birth defects, or other reproductive harm.

VOC Content

0 lbs/gal or 0 g/L, less water and exempt solvents.

**For medical emergencies only,
call ChemTrec (1-800-424-9300).**

Degussa Building Systems

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Customer Service 800-433-9517
Technical Service 800-243-6739

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