



# SILISEAL

*Liquid Hardener and Sealer  
for Concrete Surfaces*

## 1. Product Description

a. **Basic Use:** Siliseal is a sodium-silicate based hardening and sealing liquid designed to promote enhanced surface strength of concrete. It penetrates into concrete surfaces to form hardened crystals within the surface. Siliseal also develops a densified surface that gives a slight glossy appearance. Siliseal can be used as an alternative for curing compounds when curing membranes are not permissible due to subsequent floor coverings.

b. **Features/Benefits:**

- Safe, easy to use, VOC compliant liquid.
- Penetrates into concrete to harden and dustproof the surface.
- Promotes surface durability and density for easier floor cleaning.
- Can be applied to both new, green concrete and old concrete.
- Resists staining by aggressive liquids.
- Compatible with most tile and carpet adhesives.

c. **Typical Applications:** Floors, garages, offices, commercial buildings, walls and pavements.

d. **Limitations:** Use at 32°F (0°C) or above. Do not allow to be oversprayed onto glass or metal.

e. **Composition:** Siliseal is a sodium-silicate compound with a water carrier.

f. **Color/Appearance:** Siliseal dries clear to a semi-gloss appearance.

## 2. Packaging

Siliseal is packaged in 1-gal. (3.8 liter) jugs (4 jugs per case), 5-gal. (18.9 liter) pails, and 55-gal. (208 liter) drums.

## 3. Estimating/Coverage

Coverage will depend on surface texture and porosity. On broomed or floated finishes, use at 200 sq. ft./ gal. (4.9 sq. m/liter). Troweled or smooth surfaces should be estimated at 300 sq. ft./ gal. (7.4 sq. m/liter).

## 4. Technical Data

- a. **Concentration:** 20%
- b. **Drying Time:** 1 hour
- c. **Ultraviolet Resistance:** Excellent
- d. **Alkali Resistance:** Excellent
- e. **Oil, Gasoline Resistance:** Excellent
- f. **Stain Resistance:** Good
- g. **Compatibility:** Most carpet and tile adhesives will adhere to concrete treated with Siliseal. Test sections are recommended to verify compatibility.

## 5. Directions for Use

a. **Preparation:** Green concrete must be firm and free of any standing bleed water. Old concrete must be clean and free of oil, grease, and loose debris. Vacuum, sweep or power wash to produce a clean surface. Allow to dry. Remove any previously applied paint or coatings.

b. **Ambient Conditions:** Concrete and air temperatures must be 32°F (0°C) or higher.

c. **Material Application:** Siliseal may be applied by roller, sprayer (hand or power) or lambs wool applicator. Use directly out of container and apply uniformly and evenly. Avoid heavy build up or puddling. Lap material within 15 minutes for best results. Follow recommended coverage rates.

d. **Clean-Up:** Clean tools and equipment with Waterzall Concentrate and warm water. If sprayed onto glass or metal, wipe clean immediately.

e. **Storage/Shelf Life:** Siliseal can be stored safely in any warehouse. If it freezes, allow to thaw out and re-mix container. Shelf life is two years.

f. **Maintenance:** Siliseal will not necessarily permanently harden severely dusting floors. Repeated applications may be warranted from time to time if dusting starts to occur again.

## 6. Availability

Siliseal is normally available immediately from your local distributor or it will be shipped within 5 working days upon receipt of order. Please contact your local Metalcrete representative or call Metalcrete directly for more information.

## 7. Warranty

Siliseal is manufactured in strict accordance with the quality control standards of Metalcrete Industries. It is guaranteed to perform as indicated on this data sheet when applied by competent applicators.

## 8. Technical Service

Metalcrete technical service representatives are available to provide on-site assistance with a minimum three day notice.



***Metalcrete Industries*** 4133 Payne Avenue • Cleveland, Ohio 44103  
440-526-5600 • 800-526-5602 • FAX 440-526-5601