



PROSOCO®

Conservare®

MASONRY & STONE PRESERVATION

# OH100 Consolidation Treatment

Conservare® OH100 is a ready-to-use consolidation treatment that stabilizes masonry by replacing the natural binding materials lost due to weathering with silicon dioxide. When properly applied, OH100 penetrates deeply, does not form a dense surface crust, and retains the substrate's natural vapor permeability.

Conservare® Consolidation Treatments are based on silicic ethyl esters. Their extremely small molecular structure enables them to penetrate deeply into deteriorated masonry surfaces, collecting at contact points between individual stone grains. An internal catalyst and atmospheric humidity then convert the liquid consolidant into a glass-like silicon dioxide (SiO<sub>2</sub>) gel which binds the stone particles together. Exhibiting chemical characteristics and thermal expansion/contraction characteristics which are virtually identical to that of natural stone, the newly deposited SiO<sub>2</sub> cementing matrix replaces the stone's natural cement which has been lost due to weathering influences.

In addition to the general consolidation of severely deteriorated masonries, Conservare® OH100 is an effective pretreatment for friable substrates that need to be strengthened before cleaning, patching or coating. OH100 may be used on most types of natural stone, concrete, stucco, brick, terra-cotta, etc.

Conservare® OH100 is effective on unpolished marble, travertine and limestone that has been treated with Conservare® HCT.

## SAFETY INFORMATION

Always read full label and SDS for precautionary instructions before use. Use appropriate safety equipment and job site controls during application and handling.

**24-Hour Emergency Information:  
INFOTRAC at 800-535-5053**

## ADVANTAGES

- **One component – easy-to-use. Strengthens deteriorated stone.**
- **Low viscosity allows deep penetration. Will not form hardened surface crust.**
- **The new binder is mineral, similar to the original stone. No synthetic polymers.**
- **Rapid tack free drying – no dirt attraction.**
- **Forms no by-products harmful to the masonry.**
- **Treated surfaces “breathe.” Doesn't trap moisture.**
- **New binder is acid resistant – resists acid rain.**
- **Appropriate for use on most unpolished surfaces such as travertine, limestone and granite. Always test.**
- **Compatible with PROSOCO's Conservare® HCT consolidation treatment.**

## Limitations

- **Effective consolidation requires thorough laboratory and field pretesting. Contact PROSOCO for information on the recommended test programs.**
- **Limited shelf life. Remains storage stable for approximately 12 months in sealed containers.**
- **Treated areas may bond to silicone and polyurethane molds (frequently used for casting replacement stone). Use a release agent to prevent molding compounds from adhering to the treated surface.**
- **Not suitable for architectural concrete block and some types of unpolished marble. Always test.**
- **Not suitable for use on polished surfaces, including marble, travertine, limestone or granite.**
- **Will not prevent water penetration through structural cracks, defects or open joints.**
- **Not recommended for below-grade application.**
- **May not be suitable for sale in states and districts with more restrictive AIM VOC regulations. Available in regulation-exempt small container sizes. Call Customer Care at 800-255-4255 for assistance.**

# Product Data Sheet Conservare® OH100 Consolidation Treatment

## REGULATORY COMPLIANCE

### VOC Compliance

Conservare® OH100 Consolidation Treatment is compliant with the US Environmental Protection Agency's AIM VOC regulations. Manufactured and marketed in compliance with USEPA AIM VOC regulations (40 CFR 59.403).

Visit [www.prosoco.com/voccompliance](http://www.prosoco.com/voccompliance) to confirm compliance with individual district or state regulations.

## TYPICAL TECHNICAL DATA

<b>FORM</b>	Clear, colorless liquid
<b>SPECIFIC GRAVITY</b>	0.997
<b>pH</b>	Not applicable
<b>WT/GAL</b>	8.30 lbs
<b>ACTIVE CONTENT</b>	100%
<b>TOTAL SOLIDS</b>	43% ASTM D 5095
<b>VOC CONTENT</b>	>400 g/L
<b>FLASH POINT</b>	104°F (40°C)
<b>FREEZE POINT</b>	<-22°F (<-30°C)
<b>SHELF LIFE</b>	1 year in tightly sealed, unopened container

## THE IMPORTANCE OF PRETESTING

Since building materials differ in their nature and degree of deterioration, each conservation project poses unique problems and requirements. To gain a full understanding of the ongoing deterioration and determine necessary stabilization/ conservation measures, a number of laboratory and field tests are required.

### Laboratory Testing

- Evaluates the physical and chemical characteristics of the substrate(s) to confirm whether consolidation is possible.
- Identifies the cause(s) of deterioration and surface preparation procedures necessary for conservation treatment.
- Determines the most appropriate conservation agent(s) and field application procedures.

For more information on the recommended testing program, read the Conservare® Stone Testing Brochure and contact your PROSOCO representative to arrange a job-site visit.

### On-Site Testing

Following lab testing, a test area should be cleaned and allowed to dry. An application of Conservare® OH100 Consolidation Treatment is made following specific recommendations provided by the laboratory analysis. The job site test area should be as large as possible and representative of the condition of the entire project.

The test area is necessary to confirm application procedures under job site conditions and allow calculation of the masonry's consumption rate. The on-site tests also provide a visible sample of the effects of the treatment on actual job surfaces. Additional core samples can be taken from the test area and tested to verify depth of penetration and proper application procedures.

## PREPARATION

Following lab and on-site testing, clean the building with the appropriate Sure Klean® or Enviro Klean® product. In most cases, surface contaminants such as carbon crust, salts, pigeon droppings, mildew and atmospheric stains must be completely removed to assure thorough penetration of OH100. Surface sealers and repellents which may have been applied must be thoroughly removed. (See NOTE, below.) Contact Customer Care at (800) 255-4255 for additional cleaning recommendations.

**NOTE:** In cases where even the most sympathetic cleaning program would remove an unacceptable level of surface detail, OH100 may be applied to the soiled surface to pre-consolidate the stone. If such pre-consolidation is necessary, further evaluation will be required to ensure that no undesirable reactions take place between the consolidation treatment and the surface contaminants which may interfere with further conservation measures, i.e. subsequent cleaning, general consolidation, patching/repair, etc.

Protect people, vehicles, property, metal, glass, foliage, painted surfaces and all non masonry surfaces from contact with product, fumes or wind drift. Protect and/or divert pedestrian and auto traffic.

Ensure fresh air entry and cross ventilation during application and drying. Extinguish all flames, pilot lights and other potential sources

# Product Data Sheet

## Conservare® OH100 Consolidation Treatment

of ignition during use and until all vapors are gone. When applying to exteriors of occupied buildings, make sure all windows, exterior intakes and air conditioning vents are covered and air handling equipment is shut down during application and until all vapors have dissipated.

### Surface & Air Temperatures

Surface and air temperatures should be between 50–90°F (10–32°C) during application. Relative humidity should be greater than 40%.

Protect surface to be treated from direct sunlight for several hours prior to beginning application. Excessive surface heating can be prevented by shading with awnings. When possible, initiate treatment when surfaces are shaded. Keep surface temperature relatively cool to prevent too rapid evaporation of OH100 and to ensure proper penetration. Do not apply during rain, to wet surfaces or when there is a chance of rain.

### Equipment

Apply by low-pressure spray, brush or dipping. Larger surfaces should be treated using low pressure spray equipment, small areas with spray tanks.

Mobile objects such as sculptures are best treated indoors by dipping or with the use of compresses. Contact Customer Care or your local sales manager for more information.

### Storage and Handling

Store in a cool, dry place away from potential ignition sources. Keep tightly closed when not dispensing. Published shelf life assumes upright storage of factory-sealed containers in a dry place. Maintain temperature of 45–100°F (7–38°C). Do not double stack pallets. Dispose of unused product and container in accordance with local, state and federal regulations.

## APPLICATION

Read “Preparation” and the Safety Data Sheet before use.

### Dilution & Mixing

Use as packaged. Do not dilute or alter. Stir or mix well before use.

### Typical Coverage Rates

Coverage rates vary depending on the substrate and degree of deterioration. Laboratory and field testing are necessary to confirm desired results and application procedures.

### Application Instructions

Ensure proper penetration and prevent crust formations by applying OH100 in repeated applications referred to as “cycles.” A cycle consists of three successive saturating applications at 5–15 minute intervals. Typical treatments involve two or three cycles (6–9 separate applications). Allow 20 to 60 minutes between cycles.

Laboratory testing will determine the optimum delay between applications and between cycles. Additional material should be applied until excess material remains visible on the surface for 60 minutes following the last application. Once this degree of saturation is achieved over the entire surface, the first treatment is complete.

Immediately flush excess surface materials using industrial grade MEK (methyl ethyl ketone) or mineral spirits. If a second treatment is necessary, allow two to three weeks curing time following first treatment.

**NOTE:** Laboratory testing will determine the absorption profile and conservation capacity of the substrate(s). From this information, the optimal delay between saturating coats, and dwell time between cycles will be prescribed. The work area should be limited to a size that can be treated within the prescribed time periods.

Proper timing of the application process will maximize penetration of the consolidation treatment. Deep penetration is critical to the long-term benefits of any consolidation treatment.

### Dry Time

Protect from rain for two days following application.

### Cleanup

Clean tools and equipment immediately with mineral spirits, denatured alcohol or an equivalent cleaning solvent. Remove over spray and spills as soon as possible.

# Product Data Sheet

## Conservare® OH100 Consolidation Treatment

### Post-Treatment

Areas properly treated with Conservare® OH100 can receive stone repair materials, regrouting materials and PROSOCO's BMC® II silicone emulsion paint after the consolidation procedures have been completed.

After curing apply the appropriate Sure Klean® Weather Seal water repellent to ensure protection from further water damage.

### WARRANTY

The information and recommendations made are based on our own research and the research of others, and are believed to be accurate. However, no guarantee of their accuracy is made because we cannot cover every possible application of our products, nor anticipate every variation encountered in masonry surfaces, job conditions and methods used. The purchasers shall make their own tests to determine the suitability of such products for a particular purpose.

PROSOCO, Inc. warrants this product to be free from defects. **Where permitted by law, PROSOCO makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of merchantability or fitness for particular purpose.** The purchaser shall be responsible to make his own tests to determine the suitability of this product for his particular purpose. PROSOCO's liability shall be limited in all events to supplying sufficient product to re-treat the specific areas to which defective product has been applied. Acceptance and use of this product absolves PROSOCO from any other liability, from whatever source, including liability for incidental, consequential or resultant damages whether due to breach of warranty, negligence or strict liability. This warranty may not be modified or extended by representatives of PROSOCO, its distributors or dealers.

### BEST PRACTICES

Since building materials differ in their nature and degree of deterioration, each conservation project poses unique problems and requirements. To gain a full understanding of the ongoing deterioration and determine necessary stabilization/conservation measures, a number of laboratory and field tests are required.

Protect surface to be treated from direct sunlight for several hours prior to beginning application. When possible, initiate treatment when surfaces are shaded. Keep surface temperature relatively cool to prevent too rapid evaporation and to ensure proper penetration.

Ensure proper penetration and prevent crust formations by applying Conservare® OH100 in repeated applications referred to as "cycles." A cycle consists of three successive saturating applications at 5–15 minute intervals.

Additional material should be applied until excess material remains visible on the surface for 60 minutes following the last application. Once this degree of saturation is achieved over the entire surface, the first treatment is complete.

Never go it alone. If you have problems or questions, contact your local PROSOCO distributor or field representative. Or call PROSOCO technical Customer Care, toll-free, at 800-255-4255.

### CUSTOMER CARE

Factory personnel are available for product, environment and job-safety assistance with no obligation. Call 800-255-4255 and ask for Customer Care – technical support.

Factory-trained representatives are established in principal cities throughout the continental United States. Call Customer Care at 800-255-4255, or visit our web site at [www.prosoco.com](http://www.prosoco.com), for the name of the PROSOCO representative in your area.