

04 00 00 Masonry
04 40 00 Stone Assemblies

Conserve[®] HCT

hydroxylating conversion treatment for marbles & limestones

OVERVIEW

Conserve[®] HCT (US Patent No. 6,296,905) is a novel, two-step, waterborne treatment that protects and strengthens deteriorating carbonate building stones such as marble, limestone, and travertine. HCT reduces the vulnerability of treated stones to the ravages of air pollution, acid rain and normal weathering.

Conserve[®] HCT forms a well-adhered, hydroxylated conversion layer on carbonate mineral grains. HCT Finishing Rinse completes the chemical reaction that forms this conversion layer. The treatment dramatically increases the resistance of marbles and limestones to acid attack, and strengthens deteriorating carbonate stones.

SPECIFICATIONS

For all PROSOCO product specifications visit www.prosoco.com and click on "SpecBuilder" or "Solution Finder."

ADVANTAGES

- **Acid Resistance** – Dramatically reduces dissolution of carbonate stones in acid rain.
- **Consolidating Effect** – Produces a microscopic crystalline layer that strengthens sugaring marble and deteriorating limestone.
- **Penetration** – Low viscosity ensures deep penetration, reducing potential for delamination or flaking at treated zone.

- **Water Vapor Permeability** – Does not form a film. Treated surfaces retain natural water vapor permeability.
- **Durability** – Conversion layer is resistant to bio-deterioration and to dissolution in acid rain.
- **Appearance** – No gloss or yellowing; UV stable.
- **Soiling Characteristics** – Reduces recurrence of biological soiling of carbonate surfaces.
- **Curing Requirements** – Reacts chemically with carbonate minerals within minutes.
- **Safety** – No organic solvents or polymers. Odorless, waterborne formulation is safe to use, harmless to the environment. Requires no special precautions for handling or clean-up.

Limitations

- May facilitate treatment or repair of aged concrete or concrete with a predominance of carbonate aggregate. Always test.
- Not suitable for fired clay, granite, sandstone or slate substrates.
- Not suitable for use on polished marble, travertine or limestone.

REGULATORY COMPLIANCE

VOC Compliance

Conserve[®] HCT is compliant with all national, state and district VOC regulations

TYPICAL TECHNICAL DATA

FORM	Clear liquid – slight odor
SPECIFIC GRAVITY	1.009
pH	4.0 (+/- 0.2)
WT/GAL	8.39 lbs
ACTIVE CONTENT	Not applicable
TOTAL SOLIDS	Not applicable
VOC CONTENT	Not applicable
FLASH POINT	Not applicable
FREEZE POINT	32°F (0°C)
SHELF LIFE	1 year in tightly sealed, unopened container

PREPARATION

Whenever possible, apply before installing new window glazing, paint finishes, surface fixtures, etc. Minimize potential for staining or discoloring non masonry and non carbonate surfaces by protecting them from contact with the product. Avoid wind drift. Protect and/or divert pedestrian and auto traffic.

The Importance of Testing

For information on appropriate laboratory testing or to arrange a job site visit and field testing, contact your PROSOCO representative.

Remove all loose surface debris, crusts, paint coatings, bird droppings or other contaminants from the dry stone. If additional surface cleaning is necessary or desirable, contact PROSOCO or your PROSOCO representative for cleaning recommendations. Previous treatments may adversely affect HCT treatment.

Treatment of marble or limestone surfaces with Conservare® HCT should proceed after removal of deteriorated mortar joints and before installation of replacement mortars. Surface must be clean, dry and absorbent to assure deep penetration and reaction. Additional conservation treatments, if required, should follow HCT treatment.

Surface and Air Temperatures

Best results are achieved when temperatures are between 50–90°F (10–32°C). Do not apply to wet surfaces, during rain or when there is a chance of rain.

Equipment

Preferred method of application is with low-pressure spray. Sprayers should be corrosion resistant to avoid discoloration. Do not atomize/vaporize the material. Adjust spray pattern to produce a saturating, low-pressure, wet spray.

Storage and Handling

Keep from freezing. Store in a cool, dry place. Always seal container after dispensing. Do not alter or mix with other chemicals. 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

Before applying, read "Preparation" and "Safety Information."

ALWAYS TEST before application for suitability and desired results. Test according to the following application procedure. Let area dry thoroughly before inspection.

Dilution

Use in concentrate. Do not dilute or alter. Stir or mix well before use.

Coverage Rates

Coverage estimates depend on surface texture and porosity. Always test.

- 50–80 square feet per US gallon
- 1–2 square meters per Liter

Application Instructions

Apply Conservare® HCT in three successive saturating applications. Treated surfaces must dry thoroughly between each saturating application of HCT, and prior to application of HCT Finishing Rinse.

ALWAYS TEST

ALWAYS TEST a small area of each surface to confirm suitability and desired results before starting overall application. Test with the same equipment, recommended surface preparation and application procedures planned for general application.

HCT

1. Apply HCT to the point of rejection.
2. Allow the treatment to be absorbed for 30 minutes or until surface is visibly dry.
3. Repeat steps 1 and 2 until three saturating applications have been completed. With some stones (e.g. porous limestones), additional applications may be required. Laboratory and field testing should be used to determine the appropriate number of applications.
4. Allow surfaces treated with HCT to dry for 30 minutes or until surface is visibly dry.

NOTE: A minimum of 30 minutes drying time is essential between applications. If necessary, drying time may be extended overnight without adverse effects.

After the treated surface is thoroughly dry, apply HCT Finishing Rinse, as published in the HCT Finishing Rinse Product Data Sheet.

Drying Time

Protect treated surfaces from rain for 2–4 hours or until surface is dry.

Cleanup

Clean tools and equipment with fresh water.

SAFETY INFORMATION

Conservare® HCT is a water-carried product. Use appropriate safety equipment and job site controls during handling and application. Read the full label and MSDS for precautionary instructions before use.

First Aid

Eye Contact: Flush eyes with plenty of water. If irritation develops, seek medical attention.

Skin Contact: Flush exposed area with clean water. If irritation develops, seek medical attention.

Ingestion: Do not induce vomiting. Seek medical attention.

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

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.

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, to find the name of the Conservare® representative in your area.

BEST PRACTICES

Conservare® HCT is a novel, two-step process. Follow treatment of HCT with HCT Finishing Rinse for best performance and conservation treatment.

Treatment of marble or limestone surfaces with Conservare® HCT should proceed after removal of deteriorated mortar joints and before installation of replacement mortars. Surface must be clean, dry and absorbent to assure deep penetration and reaction. Additional conservation treatments, if required, should follow HCT treatment.

With some stones (e.g. porous limestones), additional applications may be required. Laboratory and field testing should be used to determine the appropriate number of applications. For information on appropriate laboratory testing or to arrange a job site visit and field testing, contact your PROSOCO representative.

Do not apply to wet surfaces, during rain or when there is a chance of rain.

Apply Conservare® HCT in three successive saturating applications. Treated surfaces must dry thoroughly between each saturating application of HCT, and prior to application of HCT Finishing Rinse.

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

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PRODUCT DATA SHEET

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