

# Technical Data Sheet

## SW-244-100™ VOC Water Repellent Product Data and Test Information

### PRODUCT NAME

SW-244-100™ VOC

High performance, clear, 100% silane water repellent/sealer for new and existing concrete.

### MANUFACTURER

Chemical Products Industries, Inc.  
7649 SW 34<sup>th</sup> St., Oklahoma City, Ok 73179  
(800) 624-4356

### PRODUCT DESCRIPTION

SW-244-100™ VOC is a clear, deep penetrating, breathable water repellent / sealer designed for the protection of interior or exterior above-grade new and existing concrete from the damage caused by water intrusion and repeated freeze/thaw cycles. It penetrates into the surface, sealing out moisture and chloride ions. SW-244-100™ VOC is not a coating and as a result will not discolor or change the surface appearance in any way.

### APPLICATIONS

For use on concrete to protect reinforcing steel from corrosion due to the effects of water, deicing salts and other water borne chemicals.

For use on traffic bearing substrates i.e. parking garages, buildings, stadiums, cooling towers, bridge decks and substructures as well as ramps barrier rails and other reinforced concrete structures.

For use on concrete pavement on highways, and airport runways to reduce scaling due to deicer chemicals.

### ADVANTAGES

SW-244-100™ VOC is an alkyltrialkoxo silane in an alcohol carrier. The silane is designed to penetrate deeply into the substrate and impart a high level of water and chloride ion screening. This provides the substrate with long lasting protection. SW-244-100™ VOC will not leave a



residue on non-porous substrates such as glass windows, metal frames and painted surfaces.

SW-244-100™ VOC does not contain exempt solvents such as 1,1,1 trichloroethane that may be hazardous. For the proper VOC regulations in your specific location contact your Chemical Products Industries, Inc. representative.

Chemical Products' state-of-the-art protective treatments have developed a reputation by architects and building professionals as the premier solution for water repellents and sealers. Chemical Products' is dedicated to solving the destructive influence water intrusion and other elements have on building materials.

Benefits of this product are:

- Extends service life of structures
- Breathable system
- Excellent resistance to water intrusion
- No change in surface appearance
- Deep penetration into the substrate
- High resistance to alkali attack

### LIMITATIONS

Not intended for below-grade waterproofing. Should not be applied if the surface temperature is below 20° F or above 100° F, if rain is expected within two hours following application, or if high winds or other conditions prevent proper application. If rain has preceded the application, the surface should be allowed to dry at least 24 hours. Caution should be taken with specialty coated glass or plastic windows. Check compatibility before application.

## TECHNICAL DATA

|                  |                       |
|------------------|-----------------------|
| Color            | clear                 |
| Active substance | alkyltrialkoxo silane |
| Active content   | 100%                  |
| Flash point      | >100° F               |
| Density          | 7.58 #/gal            |
| VOC              | <400 g/l              |

## TEST DATA

### NCHRP #244

SeriesII >80% Reduction in Water Absorption  
SeriesII >92% Reduction in Chloride Absorption  
SeriesIV 99% Reduction in Chloride Absorption

### ASTM C672 "Deicer Scaling"

100 cycles (deicer freezing and thawing using air-entrained concrete specimens)  
Results - Little to No Change

### ASTM E303 "Skid Resistance"

Dry surface - No Change  
Wet surface - No Change

### ASTM E 514 "Water Permeance of Masonry"

Reduction in Leakage 100%

### ASTM D 1653 Water Vapor Transmission

100% Breathable

## INSTALLATION

As a standard procedure, fresh concrete should be allowed to dry for 28 days before application. All repointing must be completed and allowed to cure at least 3 days. Concrete repair and replacement must be completed prior to application. Patching materials, caulking, sealing materials, traffic paint must be fully cured before applying SW-244-100™ VOC except when using asphaltic sealants and other products which are susceptible to solvent attack. While CPI Water Repellents are compatible with most sealants, specific products should be investigated prior to use.

All surfaces must be cleaned to remove all traces of dirt, dust, efflorescence, mold, salt, grease, oil, asphalt, laitance, curing compounds, paint, coatings and other contaminants. Acceptable surface cleaning methods include shotblasting, sandblasting, waterblasting and chemical cleaners. Check with your Chemical Products Industries, Inc. representative to verify

suitable cleaning methods, products and that the surface preparation is adequate.

Before applying, it is recommended that preliminary tests be carried out to determine usage and to test the effectiveness of the treatment. A coverage rate of 200 square feet per gallon is recommended for dense concrete structures including high rises, parking garages and bridge decks.

SW-244-100™ VOC should be applied by low-pressure (15 to 25 psi) pumping equipment with a wet fan type spray nozzle. Alternate methods include nap roller (1") or by brush.

On vertical surfaces apply in a flooding application, from the bottom up so the material runs down 6 to 8 inches below the spray pattern. On horizontal surfaces the liquid material should pond on the surface at least 5 seconds before being absorbed. Coverage rates on horizontal concrete surfaces range from 200 to 400 sq. ft. per gallon. For best results two applications are recommended with the second application applied using a wet on wet technique, i.e., the surface is wet from the first application but not glossy. During application, precautions should be taken to protect the surrounding area from overspray and run off.

**Precautions:** SW-244-100™ VOC is a flammable liquid and should be kept away from heat, sparks, and other sources of ignition. SW-244-100™ VOC should be kept closed when not in use and should be stored at temperatures between 0° F and 120° F. Care should be taken to prevent moisture condensation in the container. Please refer to the Material Safety Data Sheet for more detailed information.

## AVAILABILITY

SW-244-100™ VOC is available in 5 and 55 gallon drums to approved applicators throughout the United States. Contact Chemical Products Industries, Inc. at 800-624-4356 or the Sales Representative in your area for specific cost information.

## TECHNICAL SERVICE

Technical service engineers and chemists are available to answer questions on product performance, application methods and chemical composition.