

Technical Data Sheet

SW-244-40™ VOC Water Repellent Product Data and Test Information

PRODUCT NAME

SW-244-40™ VOC

High performance water repellent
for concrete, masonry and stone.

MANUFACTURER

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

PRODUCT DESCRIPTION

SW-244-40™ VOC is a clear penetrating, breathable water repellent designed for the protection of exterior above-grade concrete, brick masonry, and some natural stones from the damage caused by water intrusion. It penetrates the surface and bonds chemically to the substrate, resulting in permanent attachment of the water repellent molecule. SW-244-40™ 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 the reinforcing steel from corrosion due to the effects of water, deicing salts and other water borne chemicals.

For use on brick masonry to protect against the entrance of wind-driven rain.

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

To reduce the effects of mildew, efflorescence, and stains on vertical concrete and masonry buildings.

ADVANTAGES

SW-244-40™ 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-244-40™ VOC will not leave a



I-40 Interchange – Albuquerque, NM

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

SW-244-40™ 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:

- Excellent resistance to water intrusion
- Exhibits good beading effects
- No change in surface appearance
- Breathable system
- Deep penetration into the substrate
- High resistance to alkali attack
- High resistance to wind-driven rain

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	>40%
Solvent	alcohol
Flash point	>100° F
Density	7.58 #/gal
VOC	<600 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-244-40™ 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 150 square feet per gallon is recommended for dense concrete structures including high rises, parking garages and bridge decks.

SW-244-40™ 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 100 to 250 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-244-40™ VOC is a flammable liquid and should be kept away from heat, sparks, and other sources of ignition. SW-244-40™ 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-244-40™ 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 Sherwin-Williams Company Dallas, TX at 214-553-2986 for a sales representative in your area.

TECHNICAL SERVICE

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