



ChemMasters®

PowerSeal® 40

40% Solids, Water-Based,
Penetrating Water Repellent
Silane Sealer for Concrete

SPECIALTY CONSTRUCTION PRODUCTS

P R O D U C T D A T A

DESCRIPTION

PowerSeal 40 is a high performance, 40% solids, surface applied, water-based, clear penetrating water repellent silane sealer for concrete. When properly applied the treatment does not produce a surface build up, darkening or other effect on the color or texture of the surface leaving a natural appearance. The material's small molecular structure allows for maximum penetration into new concrete (14 day minimum) or existing concrete surfaces.

PowerSeal 40 prevents the penetration of water, salts and deicing chemicals, protecting the concrete from costly surface damage caused by freeze/thaw cycles, scaling, spalling, corrosion of structural rebar, wind driven rain, airborne contaminants and other severe weather conditions.

PowerSeal 40 is specially formulated with a reduced evaporation rate allowing for more active ingredients to react within the substrate.

USES

- Horizontal or vertical, exterior or interior, cured concrete.
- DOT, commercial, industrial and municipal applications.
- All types of concrete flatwork, parking lots and structures, driveways, plazas, patios and walkways
- Bridge and parking decks, median barriers, ramps and marine structures.
- Building facades and balconies

ADVANTAGES

- Extends the life of concrete
- Water-based - increased safety and low odor
- Long term protection against salt corrosion, deicing chemicals, mildew, water, wind driven rain, airborne contaminants, surface spalling from freeze/thaw cycles and other extreme weather conditions
- Reduces corrosion of rebar and surface erosion in reinforced concrete
- Does not alter the natural surface texture or appearance

Packaging and Part Number		
5 US gallon pail (18.9 L)	36 / pallet	FV1409.05
55 US gallon drum (208 L)	4/pallet	FV1409.55
275 US gallon tote (1,040 L)		FV1409.275

TECHNICAL DATA

Exceeds National VOC Emission Standards for Architectural Coatings 40 CFR Part 59 where regulated VOC levels are <250 g/L

- CSI Reference: 07 19 16

NCHRP 244 Test Data		
	Control percent reduction	PowerSeal 40 % Reduction
Chloride Ion Absorption		
Series II	0	95
Series IV	0	95
Water Absorption		
Series II	0	94
Series IV	0	93

Test Data	
ASTM C672 Scaling Resistance @ 100 freeze/thaw cycles	0 (no scaling)
ASTM E96 Water Vapor Permeability	95%
AASHTO T259/260 Chloride Ion Analysis—90 day salt ponding (@250 ft ² per gallon)	1/16" to 1/2" - 0.52#/cu.yd. avg. 1/2" to 1" - 0.21#/cu.yd. avg.
ASTM C642 Absorption	>98%
ASTM C457 Depth of Penetration	0.150 to 0.26 in. (substrate dependent)
ASTM D2047 Coefficient of Friction	0.84 average
Drying Time	1 to 4 hrs
VOC Content	<100 g/L
Active Solids	40%
Flash Point	214°F (101°C)



ChemMasters®

An American Owned & Operated Company

300 EDWARDS STREET • MADISON, OHIO 44057-3112 (440) 428-2105 • FAX (440) 428-7091 • ORDERLINE: (800) 486-7866 www.chemmasters.net

Jan 2021

Estimating Guide

Actual rate may vary based upon substrate texture & porosity
D.O.T. requirements take precedent for D.O.T. projects

Surface	ft ² / gal (m ² /L)
Broom Finish & Concrete Pavers	125 to 140 (3.1 to 3.5)
Smooth/Hard Troweled	200 to 400 (6.5 to 11.0)
Bridge Decks & Ramps	125 to 250 (3.1 to 8.1)
Re-Sealing Bridge Decks & Ramps	250 to 300 (8.1 to 9.2)
CMU & Smooth Face Block	200 to 400 (4.9 to 9.8)

DIRECTIONS

May be applied at 14 to 28 days after concrete installation based on mix design, rate of cure and environmental conditions. Surface and ambient temperatures must be a minimum of 40°F (4°C). Do not apply to frozen or frosted surfaces.

All caulking, patching and water base joint sealants should be installed and fully cured prior to application. Hot poured and solvent based joint sealants may be applied before or after application of the sealer.

All surfaces to be sealed must be properly cleaned. As needed, power wash surface clean of dust and construction dirt, surface materials, previous coatings, atmospheric stains and other contaminants.

Surfaces to be treated may be damp but should be absorbent to assure good penetration. Extremely dense surfaces such as burnished trowel finished floors may be given a light acid wash to promote adequate penetration.

Mixing: **PowerSeal 40** is packaged ready to use. Agitate well prior to use.

Application: Apply **PowerSeal 40** with a low pressure, solvent resistant, airless sprayer generating 15 psi and equipped with a fan nozzle or use a roller. Follow recommended application rates listed above.

On vertical surfaces, work from the bottom up, allowing a minimum 6 inch run down. Maximum run down is 12 inches. Excessive run down or over application can cause discoloration of the substrate.

Horizontal surfaces may be opened to traffic as soon as substrate is dry usually 1 hour at 72°F/22°C with 50% R.H

Cleanup

Before material dries and hardens, clean tools and equipment with warm water and detergent

Storage

Store tightly sealed containers in a cool dry area away from direct sunlight and sources of heat or ignition. Shelf life is one year from date of manufacture.

LIMITATIONS

- Do not apply unless substrate and ambient temperatures are 40°F (4°C) and rising at time of installation and remain above 40°F (4°C) for a minimum of 4 hours after application.
- Do not apply above 85°F (29°C) or below 40°F (4°C).
- Do not apply in rain or when rain is expected within 4 hours before or after application.
- Do not apply to frozen or frosted surfaces.
- Do not allow material to freeze.
- Do not apply to asphalt.
- Protect plant life and landscaping from overspray.
- Line striping can be done after application of sealer. Contact ChemMasters Technical Service for additional information
- PowerSeal 40** may remove special coatings from glass. Test small areas prior to application.
- PowerSeal 40** may "frost" or damage plastic window panes.
- It is the responsibility of contractor/applicator to determine when the substrate is dry enough to safely open to traffic.
- PowerSeal 40** is a penetrating water repellent designed to reduce the intrusion of water and salts. It is not a waterproofing membrane and thus cannot be expected to bridge cracks or joints in the concrete.
- All label precautions and the SDS must be fully understood before using this product.** Ensure that you are using the most recent technical data sheet for instructions. Go to www.chemmasters.net for the most up to date information or contact ChemMasters at 800.486.7866 to verify.
- Proper application is the responsibility of the user. ChemMasters can only make technical recommendations and cannot provide quality control on the jobsite.

Precautions

WARNING: Causes skin irritation. Causes eye irritation.

Precautionary Statements: Wash hands and skin thoroughly after handling. Wear protective gloves, eye protection.

Use the current versions of the Product Data and Safety data sheets. Go to www.chemmasters.net or contact ChemMasters Technical Service Department at 1-800-486-7866 to verify.

For professional use only.

Keep out of reach of children.

See the safety data sheet for hazard information.

This Product is Formulated and Labeled for Industrial and Commercial Use Only

FOR BEST RESULTS AND SAFEST USAGE, USER IS SPECIFICALLY DIRECTED TO
CONSULT THE CURRENT MATERIAL SAFETY DATA SHEET AND PACKAGE LABEL FOR
THIS PRODUCT

We warrant our products to meet our published specifications and to be free from defects in materials and workmanship to the acceptable quality levels defined in these specifications. If acceptable quality levels are not specified, the acceptable quality levels will be those normally supplied by us for the product. We make no guarantee of the results to be obtained from the use of our products. The determination as to the adaptability of any of our products to the specific needs of the Buyer is solely Buyer's prerogative and responsibility. We are glad to offer suggestions on the use of our products. Nevertheless, there are no warranties given except such expresses warranties offered in connection with the sale of a particular product. Our liability shall be limited to replacement of, or refund of an amount not to exceed the purchase price attributed to, the goods as to which such claim is made. Our selection of one of these alternatives shall be Buyer's exclusive remedy. IN NO CASE SHALL WE BE LIABLE FOR CONSEQUENTIAL OR SPECIAL DAMAGES, EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, CO-CONDITIONS AND REPRESENTATIONS, EITHER EXPRESSED OR IMPLIED, WHETHER ARISING UNDER ANY STATUTE, COMMON LAW, USAGE OR TRADE, COURSE OF DEALING OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.