

V-SEAL® 101 MULTI-SURFACE

REACTIVE PENETRATING SEALER FOR ALL POROUS CONCRETE AND MASONRY

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

V-SEAL® 101 Multi-Surface is a scientifically superior formulation not found in ordinary sealers. It contains surfactants to enhance deep absorption; repellents to repel freeze/thaw and salt, combat scaling/spalling, limit penetration of stains, and retard growth of mold/mildew; and hardeners to increase surface strength and reduce dusting. This combination of ingredients permanently fuses within porous substrates of concrete, brick, stone, stucco, and all other porous masonry to create a breathable barrier, with zero impact to traction, that can only wear away if the substrate itself wears away. V-SEAL® 101 Multi-Surface has excellent moisture retention characteristics and can be used as a curing agent for new machine trowel concrete. In addition to being a powerful exterior sealer, V-SEAL® 101 Multi-Surface leaves no topical residue and is an ideal sealer/primer to reduce floor dampness, restrict efflorescence, reduce dust, and protect the appearance and lifespan of most topical floor treatments such as acrylic resin, epoxy, paint, glue, or tape.

RECOMMENDED USES

Sealing commercial structures, as well as residential projects, such as concrete floors, parking garages, driveways, sidewalks, retention ponds, walls, chimneys, mortar, stucco, pavers, block, natural stone, artificial stone, all other porous masonry. Architectural features such as countertops, mantels, furniture, ponds, fountains, and statues. V-SEAL® 101 Multi-Surface is suitable for interior and exterior, horizontal and vertical, above and below grade applications. V-SEAL® 101 Multi-Surface also contains lithium silicate hardener that can be used to densify and polish concrete floors.

PRODUCT CHARACTERISTICS

SDS Information & Physical Data:

Boiling Point:	212° F
Vapor Pressure:	20° C/68° F water
Solubility in Water:	Excellent
Evaporation Rate:	Similar to water
Appearance and Odor:	Clear – slightly amine
Finish:	Flat/Clear
Specific Gravity:	(H2O-1): 1.1 to 1.3 @ 20°C
% Volatile by Volume:	0 g/L
pH:	11.5
Flashpoint:	N/A
Flammable Limits:	N/A

COVERAGE RATE*

200-300 sq. ft. per gallon broom finish/rough
300-400 sq. ft. per gallon machine trowel/dense

*Coverage rate is for estimating purposes only. Application rate is based upon porosity and absorption. Always test absorption prior to application. When properly applied product should create a wet surface sheen and absorb within 1 minute without puddles. Immediately disperse puddles. Excessive application may result in white residue which will not affect sealer performance and generally dissipates over time but may be removed immediately with abrasion.

PERFORMANCE STANDARDS

ASTM D2939 (Resistance to water solubility, flexibility):	No cracking.
ASTM D466 (Resistance to water flow and action):	Excellent adhesion, No remulsification.
ASTM E96 Water vapor transmission:	0.04 grains/sq.ft./hr.
Water permeability:	0.102 perms
ASTM C836 (Film thickness on a vertical scale):	Passed.
SS-W-110C (Water repellence on masonry test):	1.925%
ASTM C672: (100 day Freeze/Thaw cycle):	Passed, No scaling.
AASHTO 259 and T260 90 Day Ponding:	Passed.
UV-Testing (modified):	No change. Excellent results.
ASTM-Elcometer Pull (280 lbs):	Concrete failed 1st/no delamination.
ASTM C642 Absorption:	Phase 1 48 hr: 0.62%
	Phase 2 50 day: 1.25%
ASTM Scaling Resistance:	No scaling.
NCHRP 244, Series IV 4.1-	Southern Exp: Absorbed chloride: <7%
	Northern Exp: Absorbed chloride: <7%
NCHRP 244 Series –11 Cube Test:	3.1: <12% weight gain
	3.2: <9% absorbed chloride
Moisture Vapor Transmission Rate:	2%

PACKAGING

1 gallon jugs, 5 gallon pails, 55 gallon drums or concentrate kits

SHELF-LIFE & STORAGE

Two years unopened when stored in a dry area without freezing



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APPLICATION & USAGE:

V-SEAL® 101 Multi-Surface is a reactive penetrating sealer. Always test porosity prior to application (especially on machine troweled concrete and dark colored surfaces). Surface must be porous and free of loose debris, mildew, topical oil, paint or other surface coatings. Surface should be dry (no standing water). No mixing is required. Substrate and ambient temperatures should not be below 35°F or above 100°F during the application and drying period. Apply uniformly with broom, roller, or low-pressure sprayer. Specific coverage rate is based upon substrate porosity. Product should create a wet surface sheen and absorb within 1 minute without puddles. Puddles should be immediately dispersed as excessive application may result in white residue which will not affect sealer performance and generally dissipates over time. Wash application materials with warm water. Generally, only one application is required. For curing new concrete, apply V-SEAL® 101 after all bleed water is gone, finishing is complete, and the concrete will withstand the weight of a person and not be marred. Newly poured concrete should not be subjected to rain or other sources of water prior to obtaining surface hardness (surface cannot be marred) which may be highly variable based on temperature and humidity (at least 2-12 hours). When used as curing agent for new concrete, a light secondary application any time after 24 hours of the initial application may enhance water-proof characteristics. When used as densifier for polishing concrete floors, apply liquid with low pressure sprayer, followed by mechanical floor scrubber (black pad) or high-speed diamond polisher. When applying with scrubber or high-speed polisher work wet sealer in manageable area 5-30 minutes, squeegee excess to next area, and repeat, while maintaining a wet edge. Always conduct a small test to assure sealer absorption.

DRYING TIME**

Dry to touch 1-6 hours, traffic 12 hours. Inclement weather should be avoided for at least 12 hours.

**Drying time is for estimating purposes only.

REGULATORY

V-SEAL® 101 complies with EPA, FDA and OSHA requirements, contains no solvents, and 0 g/L Volatile Organic Compounds (VOC). This product is considered a non-hazardous chemical under DOT (49CFR) and OSHA Hazard Communication Standard (29CFR 1910.1200).
Transportation Class: 55.

CLEAN UP

Application tools should be cleaned with soap and water before allowing product to dry.

SAFETY & FIRST AID PRECAUTIONS

Eyes: Flush with water for at least 15 minutes
Skin: Wash thoroughly with soap and water
Inhalation: No TVL established. Move subject to fresh air.
Digestion: If consumed consult physician.
See Safety Data Sheet for complete safety information.
EMERGENCY RESPONSE PHONE NUMBER:
(800) 424-9300 CHEMTREC

KEEP OUT OF REACH OF CHILDREN

LIMITATIONS

V-SEAL® 101 is designed to work only on porous masonry substrates and is not intended for asphalt. This product may etch glass, vinyl, and metal. Avoid contact with eyes and skin. V-SEAL® 101 may be damaged if frozen prior to use. Not intended to seal cracks of more than 1/16 inch. V-SEAL® Concrete Sealers (V-SEAL®) solely and expressly warrants that its products shall be free from defects in materials and workmanship. V-SEAL® MAKES NO OTHER WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR USE OF ITS PRODUCTS. Product descriptions, illustrations, or demonstrations, if any, are for illustration purposes only and do not constitute a warranty or warranty alteration. Upon purchase, handling, storage, and application of V-SEAL® products is beyond control of the company. V-SEAL® specifically does not warranty performance results. The purchaser should conduct a test prior to application and shall be solely responsible for determining the suitability of V-SEAL® products for the purchaser's intended purposes. V-SEAL® shall bear no liability, other than the replacement of the defective product. The purchaser shall have no claim for incidental or consequential damages.



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