



MASONS SUPPLY COMPANY

OREGON ♦ WASHINGTON

MASCOSEAL SILANE 40

VOC Compliant Silane Based Water Repellent

DESCRIPTION

MASCOSEAL SILANE 40 is a ready-to-use, colorless, non-staining, non-yellowing, deep penetrating concrete water repellent. MASCOSEAL SILANE 40 has an alkylalkoxysilane concentration of greater than 40% and is formulated for use on vertical or horizontal surfaces. The product protects concrete against the damaging effects of water intrusion, deicing chemicals, freeze-thaw exposure and airborne contaminants such as acid rain, smog and industrial fumes. MASCOSEAL SILANE 40 protects without altering the appearance or texture of the treated surface by producing water repellency deep into the capillaries of the treated substance.

USES

MASCOSEAL SILANE 40 is formulated to protect vertical and horizontal above grade concrete including precast, prestressed, poured-in-place, exposed aggregate, and air entrained concrete. Applications include walls, parapets, sidewalks, ramps, parking decks and bridge decks.

COMPOSITION AND MATERIALS

MASCOSEAL SILANE 40 is a solution of an alkylalkoxysilane in mineral spirits. This formulation results in a stable, easily applied water repellent.

SURFACE PREPARATION

Cure new concrete 28 days before application. Surface must be clean, dry, open capillary, structurally sound, free of curing or form release compounds and other contaminants that will prevent the proper penetration of product. Prior to application, joints and moving cracks must be properly sealed with an elastomeric joint sealant. Non-moving cracks and voids wider than 1/64 inch (0.4 mm) must be filled with a suitable patching material. Do not apply product to a wet surface. Surfaces must dry a minimum of 24 hours following rain or exposure to other sources of moisture. Install caulking before product application. For surfaces that have had prior coatings or treatments, contact MASONS SUPPLY.

MIXING INSTRUCTIONS

Stir MASCOSEAL SILANE 40 slowly and thoroughly using slow speed mixing equipment before each use. Do not aerate with high speed mixers.

APPLICATION TECHNIQUES

Minimum ambient and surface temperatures 40°F and rising at time of application. Low pressure airless spray equipment with a 0.035" tip is the preferred method of application, although brush or roller application is acceptable for smaller areas. Application should be from the bottom up to ensure uniform product distribution. Apply a saturation coat with a 6-8" controlled rundown. One saturation coat of MASCOSEAL SILANE 40 is normally sufficient for dense surfaces. For porous surfaces two or more saturation coats of MASCOSEAL SILANE 40 may be required, using a "wet on wet" technique. Distribute material evenly. Brush out puddles. Apply a test patch to evaluate surface appearance and determine coverage rates.

COVERAGE

Because of variations in surface density, the following coverage rates are approximate and are intended for estimating purposes only. Use test applications on actual surfaces to accurately determine coverage rates. Most surfaces will require only one coat. Extremely porous surfaces may require two coats of MASCOSEAL SILANE 40.

Material Properties @ 75° F (25°C)

Flash point - min	>110°F
Active Solids by Weight	>40%
VOC, gms/liter	585
Weight per gallon	6.88 lbs/gal
Resistance to UV	Excellent
Abrasion Resistance	Excellent

ASTM C642

Absorption, 48 hours, %	0.18
50 days, %	0.46

ASTM C672

Non-air entrained concrete	
Scaling Rating, 100 cycles	No scaling (0)

NCHRP 244 SERIES 1 TESTS

	Minimum Requirement	SILANE 40
Reduction in Water Absorption	75%	83.8%
Water Vapor Transmission	100%	111.4%
Reduction in Chloride Intrusion	75%	82.7%

NCHRP 244 SERIES IV TESTS

Southern Climate Exposure, Chloride Ion Reduction	97.6%
Northern Climate Exposure, Chloride Ion Reduction	97.6%

ASTM C666

Freeze Thaw Durability	95.3%
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APPROXIMATE COVERAGE

Surface Type	sq. ft. per gal.
Smooth Concrete	120-250
Exposed Aggregate	100-200
Decks/Ramps	100-125

COMPLIANCE

Meets requirements of NCHRP 244.

CAUTIONS

Do not dilute. Temperature of air and surface must be at least 40° F and rising. Application at temperatures above 90° F is not recommended. Do not apply if rain is expected within 12 hours. Water repellency properties will develop 24 hours to 5 days after application. MASCOSEAL SILANE 40 is not intended to seal cracks or withstand hydrostatic pressure. Uneven application may result in a blotchy appearance of the surface. Do not use on lightweight concrete block or non-absorbent surfaces such as glass, metal, glazed brick or tile.

PACKAGING

5 gallon and 55 gallon DOT approved containers.

Storage: 40° F to 85° F

Protect from Freezing.

Shelf Life: 1 year unopened, in protected storage.

Freight Class: Class 55

DOT Hazard Class: Combustible Liquid, NA 1993

Packing Group: III

Shipping Name: Combustible Liquid, n.o.s.

HAZARDS IDENTIFICATION

Expect to have a low degree of toxicity by inhalation. Excessive inhalation of vapors and/or spray/mist may cause respiratory irritation, dizziness, weakness, nausea, headache, loss of coordination and fatigue. Contact with eyes may cause mild irritation including stinging, watering and redness. Skin irritant; contact may cause redness, burning, drying and cracking of the skin and skin damage. Ingestion is not expected to be a relevant route of exposure. Aspiration hazard; this material can enter the lungs during vomiting or swallowing and cause lung inflammation and damage (pneumonitis and/or pulmonary adema).

FIRST AID

Inhalation: Remove victim from exposure to fresh air. If victim has difficulty breathing, administer oxygen. If breathing has stopped, administer artificial respiration. Seek medical attention.

Eyes: Flush eyes with water, lifting upper and lower lids occasionally for 15 minutes. Seek medical attention.

Skin: Remove contaminated shoes and clothing, flush affected area with large amounts of water. If skin surface is damaged, apply a clean dressing and seek medical attention. If skin surface is not damaged, cleanse affected area thoroughly by washing with mild soap and water. If irritation or redness develops, seek medical attention.

Ingestion: Aspiration hazard; do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Seek medical attention.

CLEANUP INSTRUCTIONS

Clean tools and equipment with alcohol, mineral spirits or similar solvent immediately following use. Clean drips and over spray while still wet. Clean glass and other non-absorbent materials soon after application.

TECHNICAL SERVICE: For application procedures or surface conditions not specified above, please contact:

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