**SALT SHIELD**

**CONCRETE SEALER, HARDENER, DENSIFIER & WATER REPELLENT**

*Specco Salt Shield* is a ready to use, colorless, odorless, penetrating, protective concrete sealer. *Salt Shield* is formulated to densify, dustproof and harden untreated concrete surfaces by creating a permanent closed cell, less porous substrate. *Salt Shield* also contains a water repellent additive to decrease surface absorption and provide improved water beading. Treated surfaces are more resistant to water and deicing salt intrusion, as well as acids, oils, grease and other contaminants. *Salt Shield* is recommended for cured (hardened) concrete use only, not on newly poured (fresh) concrete. Typical applications include driveways, walkways, loading docks, garages (residential and commercial), ramps, and steps. *Salt Shield* is also used in precast manhole applications to provide decreased surface permeability for improved vacuum testing results.

**BENEFITS:**
- Increases wear resistance for improved surface strength
- Excellent dustproofing
- Provides added water repellency
- Decreased permeability of the surface
- Improved stain resistance
- Applies in one flood coat
- V.O.C. compliant
- Odorless, non-yellowing water based formulation

**LEED CREDIT CONSIDERATIONS: MR Credits 5.2:** Regional materials- Greater than 20% extracted, processed and manufactured regionally at production location: Kankakee, Ill. 60901. 90% Content Harvested within 500 miles.

**COMPOSITION:** Water base silicate and silicone dispersions with added penetrating agents. Contains no waxes or stearates.

<table>
<thead>
<tr>
<th>PHYSICAL DATA:</th>
<th>APPROXIMATE VALUES:</th>
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<tbody>
<tr>
<td>Color:</td>
<td>Clear solution</td>
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<tr>
<td>Weight/gallon:</td>
<td>9.00 lb.</td>
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<tr>
<td>pH:</td>
<td>10.50 +/- 0.50 (Alkaline)</td>
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<tr>
<td>V.O.C. levels</td>
<td>12 g/L (0.10 lbs./gal.)</td>
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**TECHNICAL DATA:** Contains less than 100 g/L (0.83 lbs./gal.) volatile organic compounds for concrete sealers. Meets Architectural Coatings Section 183(e) Final Rule limit and all National AIM specifications for all states.

**SURFACE PREPARATION: EXISTING (OLD) CONCRETE:** Surfaces to be treated must be structurally sound, clean and free of all contaminates, resins, or previously applied sealants that will prevent the penetration of *Salt Shield*. First use *Specco Citrus Solve C-25* for removal of any grease or oil contaminants on the old concrete surface if they are present. Next use *Concrete Earth Enviro Clean & Etch C-30* for removal of any additional surface contaminants that may be present. Repair all cracks, voids, or surface pop-outs prior to applying *Salt Shield* by use of *Specco Thin Repair* feather edgeable cement patch.

**NEWLY POURED CONCRETE: FLATWORK:** Surfaces should be at least 3 days old minimum, and should have been cured by water spray, damp burlap, or visqueen methods only (no resins or curing compounds that would inhibit penetration of the *Salt Shield*). It is not necessary to use any degreasers or cleaning solutions on the newly poured concrete unless newly formed surface stains are visible.
PRECAST CONCRETE: Concrete pieces should preferably be at least 2-3 hours cured and dry to touch upon sealing. Do not apply on freshly stripped dry cast (green) concrete as the sealer may crystallize or leave white carbonate deposits on the surface. Cooler temperatures may prolong these suggested spray application times.

DIRECTIONS FOR USE: Liftly pre-dampen the existing concrete with water to a S.S.D. (saturated surface dry) condition. This pre-step is to allow even penetration of the Salt Shield and to prevent any subsequent mottling or surface color differences that may form by uneven absorption of the sealer into the substrate. Brush or squeegee out any remaining water puddles or low spots that are visibly present. Note- For precast applications only, it is not necessary to pre-dampen the concrete.

COVERAGE: The following coverage rates are approximate and for estimating purposes only. Specco recommends that a test application be made on the actual surface to be treated, to accurately determine coverage rates, effectiveness and influence on surface appearance aesthetics.

<table>
<thead>
<tr>
<th>Surface Type</th>
<th>Coverage Rate</th>
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</thead>
<tbody>
<tr>
<td>Concrete - steel troweled</td>
<td>200 to 250 square feet per gallon</td>
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<tr>
<td>Concrete - broom finished</td>
<td>150 to 200 square feet per gallon</td>
</tr>
<tr>
<td>Concrete - precast</td>
<td>100 to 150 square feet per gallon</td>
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</table>

APPLICATION: Salt Shield should be applied as is with no dilution. The easiest and most common application method is by using low pressure, airless spray equipment. For small areas, a garden sprayer or roller may be used. Apply in a continuous, heavy flood-coat to the point of saturation, keeping the entire area wet for a minimum of 15 minutes to allow for adequate absorption into the concrete. Salt Shield will penetrate into the concrete and can be re-applied to overly absorbent areas as needed during this time while the surface is still wet. It is also helpful (but not necessary) during this wet phase to use a stiff bristled push broom and scrub the Salt Shield into the substrate as needed to allow for an even absorption and ensure complete 100% coverage of the area. Make sure that no puddles are left when the application is completed to avoid potential spotting (See Cautions).

DRY TIMES: After the first application has dried, a second coat should not be necessary on most substrates, since the sealer should repel any successive water penetration. A second coat may be needed only on very porous or absorbent substrates if water absorption (surface darkening) is still experienced afterwards. Salt Shield will typically dry between 1-2 hours during ambient weather conditions. Cooler temperatures may extend dry times to 3-4 hours. Allow the surface to dry for approx. 12 hours before subjecting the area to any foot traffic, while 24 hours wait time is recommended for vehicle traffic. CLEAN-UP: Clean equipment with soap and water immediately after use.

LIMITATIONS: A test area is always recommended to determine product suitability before use, especially on light colored driveways, sidewalks, or patios where appearance is critical. If no surface mottling is desired, the use of Specco Waterstopper S-20 Siloxane is recommended for a natural (invisible) appearance. Salt Shield is not a curing compound and should be used to seal cured concrete only. Salt Shield is generally not recommended for application to integrally colored or stamped (decorative) concrete surfaces. Specco Pavesheen 350 is typically used in these applications for improved color enhancement and gloss characteristics. Salt Shield can be used on Interior warehouse or basement applications, however, the use of Specco Floor Shield is generally recommended for these type of substrates. Salt Shield is considered a penetrating hardener and is not a film forming type sealer. However, depending on absorption ability of the substrate, it may slightly darken or highlight imperfections or aggregate surface colors, resulting in a mottled appearance. When Salt Shield is applied excessively (puddled) and allowed to dry in this condition, a white residue may remain on the surface of the treated substrate. This white residue consists primarily of excessive potassium carbonate salt that can be subsequently removed with water spray and slight broom agitation since the salt is water soluble.
CAUTIONS: Be careful when applying and immediately after application as the treated surface will be somewhat slippery during application and until the surface has completed dried. Do not apply in temperatures below 45º F or above 90º F. Do not apply to frozen or frost filled surfaces. Protect glass, aluminum, foliage, shrubs and grass from over spray.

GHS HAZARD RATINGS: WARNING:

IRRITANT: SKIN AND EYE IRRITATION.

FIRST AID: REFER TO PRODUCT S.D.S. (SAFETY DATA SHEET) FOR COMPLETE HEALTH AND SAFETY INFORMATION BEFORE USING THIS PRODUCT. FOR MEDICAL EMERGENCIES ONLY – CALL INFOTRAC AT 800-535-5053.

WARNINGS & SAFETY INFORMATION: SALTSHIELD is relatively safe to use. Keep containers closed. Avoid ingestion, skin and eye contact and inhalation of the spray mist. Keep away from food and drink. Wash hands thoroughly after use and before eating. DO NOT TAKE INTERNALLY. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.

H.M.I.S. CODES (Hazardous Materials Identification System):
HEALTH = 1
FLAMMABILITY = 0
REACTIVITY = 0
PERSONAL PROTECTION = C (Safety glasses, Gloves, Apron)

PACKAGING: 1, 5, & 55 gallon containers

FREIGHT CLASS: ITEM 33880, Sub 2, Freight Class 55

SHIPPING NAME: Concrete Sealer, Water-Based, Not Regulated

STORAGE: 40° to 90° F. Protect from freezing. If frozen, product should be thawed, but is stable and can be used.

SHELF LIFE: 1 year properly stored

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