

# FLOOR SHIELD

## CONCRETE SEALER, DENSIFIER, AND CHEMICAL HARDENER

**PRODUCT DESCRIPTION:** Specco Floor Shield is a ready to use, colorless, non-yellowing, penetrating, protective concrete sealer designed for use on natural concrete flooring. Floor Shield becomes an integral part of the concrete matrix and chemically hardens the treated surface, thereby increases its long term durability and wear resistance. Floor Shield eliminates efflorescence, dusting and pitting of the concrete by densifying and reducing open capillarity. Surfaces treated with Floor Shield are more resistant to water intrusion, acids, oils and grease, and are easier to maintain than traditional acrylic, epoxy and urethane sealers. Floor Shield cannot yellow, discolor, chip, peel or flake as there is no surface film that can show signs of wear or abrasion. If secondary floor treatments such as paints, adhesives, or floor coverings are to be applied, Floor Shield is an ideal primer sealer as it neutralizes the free alkalis in the concrete which results in an improved surface bond.

**APPLICATIONS:** Specco Floor Shield is recommended for indoor or outdoor commercial floors subject to heavy forklift or tire traffic such as warehouses, manufacturing plants, food processing plants, service garages, parking decks, breweries, refineries or bottling plants. Additional uses include high pedestrian traffic floors such as hallways, lobbies, grocery stores, museums, hospitals or schools.

**BENEFITS:** IMPROVED WEAR RESISTANCE AND SURFACE STRENGTH ON FLOORS SUBJECT TO VEHICULAR OR PEDESTRIAN TRAFFIC...PROVIDES ADDED WATER REPELLENCY AND IMPROVED STAIN RESISTANCE...DECREASES PERMEABILITY OF THE SURFACE...APPLIES IN ONE FLOOD COAT...PROVIDES A MAINTENANCE FREE TREATED SURFACE ...ODORLESS WATER BASE FORMULATION

**COMPOSITION:** Water-based silicate and silicate dispersions with added hardeners and penetrating agents.

PHYSICAL DATA @ 70° F (21°C)	APPROXIMATE VALUES:
Color:	Light blue clear solution
Weight/gallon:	9.75 lb.
pH:	10.5 +/- 0.25 (Alkaline)
V.O.C. levels	15 g/L (0.12 lbs. /gal.)

**TECHNICAL DATA:** Contains less than 400 g/L (3.3 lbs. /gal.) volatile organic compounds. Meets Architectural Coatings Section 183(e) Final Rule limit for concrete sealers.

**NEW CONCRETE SURFACE PREPARATION:** Floors to be treated with Floor Shield should be free of resin or film forming applied cure and seal compounds. If these types of cures were used, they must be removed by either abrasive or chemical means such as Specco Eliminator WB or similar floor stripper cleaners. Wet curing is the preferred recommendation on new concrete, however, if a chemical curing compound is to be used, apply a clear, non-residual type such as Specco MVB Densifier. Visqueen or plastic sheeting can also be used, however, care should be taken to avoid objectionable surface stains or discoloration marks. Allow new concrete to cure a minimum of 72 hours before applying Floor Shield to allow improved penetration.

**APPLICATION:** Apply "as is" (undiluted) generously to the surface directly from the container. Floor Shield is to be applied in a continuous, heavy flood-coat to the point of saturation, keeping the entire area wet for a minimum of 30 minutes to a maximum of 1 hour to allow for adequate absorption. Brush or squeegee out any water puddles or low spots that are visibly present. Floor Shield is most commonly applied using low pressure, airless spray equipment. For small areas, a garden sprayer or roller may be used. Floor Shield will penetrate into the concrete and can be re-applied to overly absorbent areas as needed while the surface is still wet. Do not allow the surface to dry during this time. Keeping the entire area consistently wet, scrub the Floor Shield into the

**APPLICATION(Continued):** concrete to allow for even absorption, using a broom, bristle brush, or mechanical scrubber to work the material into the substrate. After the 30 minutes minimum has elapsed, thoroughly flush the entire area with water, while continuously agitating the surface with broom or scrubber to remove any excess Floor Shield that has not been absorbed into the concrete. This residue solution is non toxic and can be emptied into a sanitary sewer. Any areas that are still slippery after the first rinse should be re-agitated and flushed again. 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 (darkening) is still experienced, waiting 2-4 hours following the first coat. Floors are ready for occupancy immediately following removal of the rinse residue and drying. Dry time is typically 2 to 4 hours during ambient weather conditions. Clean equipment with soap and water immediately after use.

**COVERAGE:** Coverage rates are approximately 150-250 square feet per gallon (4-5m<sup>2</sup>/liter) for estimating purposes. This value will vary depending on concrete porosity, texture and surface temperature. 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.

**CAUTIONS:** Floor Shield will aid and improve overall curing properties if it is used on freshly poured concrete, however, it is not intended for use as a curing compound, and is recommended to seal cured (hardened) concrete only. Floor Shield is not recommended for application to decorative (stamped) concrete surfaces. Apply to integrally colored concrete surfaces only after the slab is fully cured (28 days), and make sure to flush the entire surface with water after 40-60 minutes of application. When Floor Shield is applied excessively (allowed to puddle) and dries in this condition, a white residue may form on the surface of the substrate. This residue consists of excessive alkaline carbonate salt deposits that are water soluble and can be removed with water spray and slight agitation. Floor Shield will leave a slightly darkened, matt-satin type finish appearance to the substrate and should not be used when a natural seal (no color alteration or darkening) is desired. If the Floor shield is not washed off after the 40-60 minute application time, a higher degree of sheen (gloss) will be present on the treated surface. Floor Shield is not effective on lightweight or extremely porous substrates with excessive air pockets. Do not apply in temperatures below 45° F. Do not apply to frozen or frost filled surfaces. Protect glass, foliage, shrubs and grass from over spray. The treated surface will be slippery until dry, so precautions should be taken to restrict foot traffic during this time. Allow the treated surface to dry a minimum of 12 hours before exposing to foot traffic and 24 hours vehicular traffic. Do not apply to areas previously treated with curing or sealing agents unless these coatings have been removed by chemical or mechanical abrasion.

**WARNINGS:** Avoid contact with skin and eyes. Wear protective clothing and safety glasses during application. Keep away from food and drink. Do not take internally. If ingested, do not induce vomiting. Drink large amounts of milk or water and consult your physician immediately. Refer to product M.S.D.S. (Material Safety Data Sheet) for further health and safety information. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.

**H.M.I.S. CODES:** HEALTH = 1, FLAMMABILITY= 0, REACTIVITY = 0, PERSONAL PROTECTION = C (GLOVES, GOGGLES, APRON)

**SHIPPING NAME:** Concrete Sealer Water base -Not regulated **SHIPPING CLASS:** ITEM 33880, SUB 2, LTL 55

**STORAGE:** Ideal storage is between 60° to 80° F. Keep from freezing

**PACKAGING:** 5 gallon (18.9 L) and 55 gallon (208 L) containers. **SHELF LIFE:** 1 year properly stored

**LIMITED WARRANTY:** This product is warranted to be of merchantable quality when used according to the instruction herein. It is not warranted to be suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is limited to the replacement of the product as purchased, if found to be defective upon inspection by the manufacturer. This limited warranty is issued and accepted in lieu of all other expressed warranties and explicitly excludes liability for consequential damages. Buyer assumes all risk and liability resulting from the use of this product. Revised – 02-28-10