



ChemMasters®

SPECIALTY CONSTRUCTION PRODUCTS

DuraShield™ SRT

High Performance, Catalyzed,
High Gloss Sealer
for Interior Concrete

P R O D U C T D A T A

DESCRIPTION

DuraShield SRT is a new generation two component, water-based, high solids, non-yellowing, high performance catalyzed concrete sealer for interior use that incorporates:

- Gloss and application characteristics of a solvent-based sealer
- Low Volatile Organic Compounds (V.O.C.) and easy clean-up of a water-based product
- Chemical resistance of an epoxy
- Abrasion resistance of a urethane

DuraShield SRT develops a rich, high gloss, can be used to re-seal interior concrete, and may be used in cooler temperatures, down to 40°F (4.4°C). Unlike standard acrylic sealers, **DuraShield SRT** will not soften with exposure to solvents and provides superior chemical and abrasion resistance. When the functionalized alkoxy silane is added, before application, it cross-links with the resin for maximum performance.

USES

- Seal and protect any interior horizontal concrete surface from abrasion, chemical exposures or other contaminants
- Protect and amplify the beauty of exposed aggregate, decorative concrete, terrazzo, man-made, or natural stone
- Enrich the color of decorative concrete while shielding it from water, freeze thaw damage, UV exposure, dirt, and most hydrocarbon chemicals
- Surfaces subject to solvent or gasoline spills

ADVANTAGES

- High gloss and wet look appearance
- Low VOCs - meets all EPA standards
- Low odor for indoor applications
- Durable for demanding applications
- Usable down to 40°F (4.4°C)
- Can recoat over solvent-based and water-based sealers or cure & seal products
- Chemical resistance superior to standard acrylic sealers and comparable to epoxies
- Resists aliphatic solvents, acids, alkalis, gasoline, oils and grease
- Highly abrasion resistant - comparable to many urethanes
- Keeps surfaces from dusting and chalking
- Makes surfaces easier to clean

TECHNICAL DATA

Packaging Product Number

4.75 gal Part A 30 oz Part B	36 pails per pallet	F1225.05
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Estimating Guide

First Coat	300 ft ² /gal (7 m ² /L)
Second Coat	300 to 400 ft ² /gal (7 to 9 m ² /L)

Test Data

V.O.C.	< 25 g/L
Solids %	25 minimum
Taber Abrasion	32 mg (1k grams/1k cycles/ CS 17 wheels)
Dry Time	@ 70°F(21°C) 50% R.H.
Tack free	1 hour
Hard Film	6 hours
Light Foot Traffic	12 hours
Wheeled Traffic	48 hours
Maximum Hardness	7 days

DIRECTIONS

Surface Preparation: Interior concrete to be coated with **DuraShield SRT** must be a minimum of 2 days old or free of moisture per ASTM D4263 (visqueen test). Lightly acid etch smooth steel trowel finished concrete surfaces prior to application of **DuraShield SRT**. All surfaces must be clean of oil, grease, paint, dirt or other contaminants that might impede adhesion. Citrus degreaser is recommended to remove oil and grease. Prime all surfaces with ChemMasters' **Polyseal WB** (see that Product Data Sheet for primer directions.)

Mixing: Do not dilute with water or solvents. **DuraShield SRT** is a two-component product and must be mixed prior to application. Add 30 ounces of **Part B Catalyst** to 4.75 gallons of **Part A Resin**, mix thoroughly for two minutes prior to use. It is recommended that complete units are used. A drill & paddle are not required for mixing. A simple



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stirring stick may be used. Once **Part A Resin** and **Part B Catalyst** are mixed, **DuraShield SRT** will remain usable for up to one week if stored in a sealed container at room temperature.

Application: Always apply to a small test area to verify appearance. In temperatures, below 50°F (10°C), warm material to 70°F (21°C) to ease application.

Roller Application: Apply **DuraShield SRT** with a short nap (1/4 inch or less) roller or lambs wool applicator and roller pan. A Floor Coater from Padco, Inc (www.padco.com) is highly recommended.

Spray Application: Limited to experienced applicators who apply sealers evenly. Use a low pressure solvent resistant, airless sprayer equipped with a fan nozzle orifice 0.030 to 0.035 inch rated 1 gpm. The optimum spray pattern is 8 to 12 inch fan. Hold the spray tip 8 to 12 inches from the surface. Apply a continuous film leaving no pinholes or gaps. Do not allow material to puddle.

For best protection apply two coats of **DuraShield SRT**. Allow the first coat to dry tack free before applying the second coat. If bubbles appear during application or shortly after, lightly mist with isopropyl alcohol, to break the bubbles.

Inspect sealed surfaces annually for signs of wear. If reapplication is needed see below:

Application Over Previously Sealed Surfaces:

Thoroughly clean all previously sealed surfaces with a minimum 2,500 psi pressure washer. Allow the concrete to dry completely for several hours then apply **DuraShield SRT** by roller or spray as described above.

Note: **DuraShield SRT** appears to have a light straw color in the pail, but dries crystal clear on the concrete and will never discolor.

CLEANUP

Clean tools and equipment with soap and water before **DuraShield SRT** dries. Hardened material requires mechanical removal.

STORAGE

Store tightly closed containers in a dry area. Protect from freezing. Shelf life of properly stored material is two years from date of manufacture.

LIMITATIONS

Do not apply if temperature is below 40°F (4.4°C) or if relative humidity is > 90%

DuraShield SRT should not be used on exterior concrete. Avoid applying in direct sunlight during times of extreme heat. This can cause wrinkling, pinholes or blistering. Schedule application for early morning or late afternoon when ambient and substrate temperatures are lower.

If excess build-up of material is applied and allowed to dry, the film may appear white or hazy. If the **DuraShield SRT** has not dried for more than 2 hours, scrub the area with isopropyl alcohol (IPA) and a stiff natural bristle broom to emulsify the coating. Once re-liquefied, remove the excess coating by blotting with clean white towels or roll the surface with a dry medium nap roller to absorb the excess material. Scrape off the excess from the roller sleeve to reuse it.

Avoid direct air currents over freshly placed **DuraShield SRT** to prevent skinning and bubble formation **DuraShield SRT** is not designed for immersion conditions.

Quality sealing compounds and floor treatments darken or highlight the subtle color variations naturally present in concrete.

All label precautions and the SDS must be fully understood before using this product. Ensure that you are using the most recent Product 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.

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

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