



# Limestone Concrete Sealer

## Data Sheet & Installation Guide

**TSS250**  
Moisture Tolerant

### Weatherproofing, Waterproofing, Stain & Efflorescence Resistance for Concrete & Limestone

#### DESCRIPTION:

TSS250, is a state-of-the-art, extremely durable water-borne coating that protects, densifies, creates unprecedented stain resistance, prevents efflorescence, and waterproofs concrete and limestone. TSS250 is a silica based highly advanced treatment that builds both a protective, engineered film on the surface and a penetrating, impregnating protective layer inside the surface pore system producing a hard, long-lasting, abrasion, scratch, stain, and traffic resistant surface.

TSS250 is the professional solution for protecting and preventing/minimizing staining and efflorescence on concrete, pavers, and limestone. TSS250 is a penetrating, surface and sub-surface densifying and impregnating molecular bonding treatment. It integrally waterproofs, densifies, and preserves concrete and limestone of any age while modifying the surface structure imparting stain resistance.

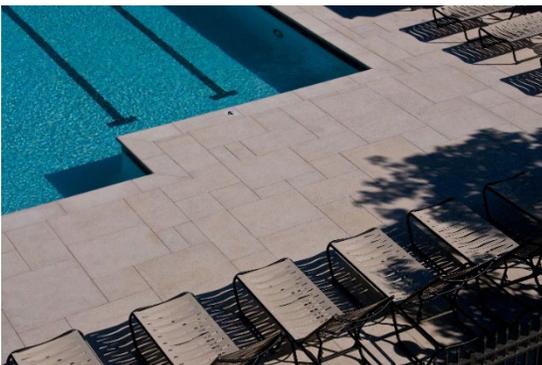
#### SPOTLIGHT FEATURES:

TSS250 brings a roller-bearing concept to coatings. Vegetation, leaves, soil, and other discoloring particulate tend to naturally wash or blow off in rain or wind or with a hose removing the presence of potential staining.

TSS250 Prevents/minimizes (virtually eliminates) unsightly red clay staining on concrete and limestone even when embedded.

TSS250 will prevent/minimize efflorescence in concrete, materials containing Portland cement and alkali surfaces such as limestone and grout.

TSS250 will protect a treated substrate from damages caused by freeze-thaw cycles, and it helps to neutralize existing internal corrosives such as acids and chlorides reducing internal chemical reactions.



#### MOISTURE TOLERANT

TSS250 represents a new era in sealing technology. No longer is it necessary to wait until the next day for a surface to be completely dry from power washing to be sealed or wait until a surface has completely dried out from a summer storm and has a low moisture content.



For the professional sealing company or contractor TSS250 advances sealing efficiency by eliminating extra trips, waiting for surfaces to completely dry and being able to get more jobs and work finished each day.

#### COMPARED TO COMPETITION:

- More Desired Benefits
- Newest Technology
- High Traffic Surface
- Longer Lasting

#### FEATURES

- ◆ Easy to apply, use pump-up or airless sprayer,
- ◆ Can be applied over a "wet surface"
- ◆ Prevents moisture penetration,
- ◆ Prevents/minimizes red clay staining,
- ◆ Prevents/minimizes efflorescence,
- ◆ Permanently densifies, significantly strengthens the surface,
- ◆ Prevents/minimizes staining from dirt/soils and outdoor vegetation, minimizes dirt pick-up,
- ◆ Prevents/minimizes corrosion from acidic air pollutants,
- ◆ Prevents dust (concrete) particularly new concrete,
- ◆ Prevents/minimizes stains from red wine, condiments, and oils; if spilled and wiped off soon after occurring no stain occurs otherwise staining is minimized,
- ◆ Salt water proof.



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- ◆ Provides excellent protection for areas with heavy traffic,
- ◆ UV stable; long term color retention fade-resistant,
- ◆ Waterborne, Low VOC content,
- ◆ Prevents/minimizes staining from most permanent marker inks (washes off with soap and water),
- ◆ Little to no color change of concrete, slight darkening/enhancement to limestone,
- ◆ Most applications require only one coat,
- ◆ Ready for foot traffic in 2 hours, full cure in 48 hours,
- ◆ Use indoors or outdoors, low odor.

### APPLICATIONS

Use on uncoated vertical or horizontal, interior or exterior surfaces. TSS250 provides protection for:

#### Concrete

- Concrete tiles and pavers
- Concrete driveways and walkways
- Concrete pool coping – stamped concrete
- Concrete pool decks and patios
- Commercial walkways and meeting areas
- Concrete building exteriors and entrances areas
- Concrete decorative products and figurines

#### Limestone

- Residential homes and commercial building exteriors
- Walkways and patios
- Pool surrounds
- Landscape areas
- Exterior walls
- Architectural Limestone Veneers
- Tile and pavers

**CAUTIONS:** TSS250 will not extend protection if there are polymers or acrylic stains mixed in the concrete/grout that will prevent penetration; if unsure, test to see if the sealer penetrates.

Additional:

1. Cover everything not intended for the product. Incidental damage and or issues may occur on unintended surfaces. Be especially careful where wind drift is present.
2. TSS250 can discolor aluminum and pit glass, flush immediately with water.
3. Do not use Dawn soap to clean with. Use a mild soap such as Fabuloso.
4. Do not apply on polished or glossy surfaces.

**SURFACE AND AIR TEMPERATURES:** For maximum effectiveness surface and air temperatures should be 50-90°F (10-32.2°C). Dry time will be slower at lower temperatures.

- Ambient air temperatures ideally should be 50 - 90°F (10-35°C).
- Surface temperatures above 90°F are marginal, that is the carrier will evaporate too fast not allowing the active elements to chemically react with the substrate.
- When surface temperatures are too hot, the carrier (water) will evaporate too fast and preventing the siloxane elements to penetrate and form an adequate bond. This can lead to a shorten product life cycle. Typically, surface temperatures above 90° F can create this situation.
- Where ambient temperatures typically reach above 90°F in the afternoon, application should be scheduled for the morning where it will be cooler.
- Hand-held surface temperature reading devices are inexpensive and eliminate guess work.
- Air temperature below 50°F will cause the product to cure much slower. Do not apply if substrate temperatures are less than 50° F and will not decrease to less than 45° F for six hours.
- Do not apply if surface temperature will drop below freezing within 48 hours of application.

Do not let product freeze – freezing will render product ineffective.

**EQUIPMENT:** The easiest method of application is with a low-pressure pump-up sprayer or, alternatively, with an airless sprayer or roller.

### PREPARATION

1. Power wash and thoroughly clean the area to be treated. Any stain covered by the sealer will be unable to be removed.
2. Any previous coatings/sealers on the surface must be completely removed.
3. TSS250 only seals the surface itself, not fractures.
4. Do not dilute or alter product.
5. If the area has been recently acid washed, neutralize the surface with NU100 before applying TSS250.
6. ALWAYS wear protective gloves, protection for eyeglasses and eyes, and a mask.
7. The surface area should be completely dry before applying product.
8. If an acid wash, cleaner, or bleach was applied, rinse thoroughly, apply TSS015 Neutralizer.



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### APPLICATION

Shake, stir, mix container well prior to applying.

Product will separate and create an uneven surface texture if not completely mixed.

ALWAYS TEST a small area of each surface to confirm suitability, color change, absorption rates and desired results before starting overall application. Test with the same equipment that will be used in application where possible.

One or Two Coats: The porosity/density of the surface will determine if one or two coats are required. In the test, if the sealer did not absorb immediately and slowly absorbed, 2 – 15 minutes, only one coat should be applied. High density concrete and polished limestone are examples. If the sealer absorbed quickly, virtually immediately, (1 – 2 minutes) a wet-on-wet 2-coat application should be applied.

Complete area to be treated in one continuous saturation application.

1. Single coat: apply a single, uniform, **light** to coating. A heavy coat is not recommended.
2. Saturation coat wet on wet:
3. Apply product first coat; once absorbed, the surface remains dark (damp to wet appearing), apply second coat. Porous stone such as limestone and low-density concrete can continue absorb sealant, only apply two coats.
4. A nap roller can help to evenly distribute.
5. Overlapping or applying over a previously applied dried area will slightly darken the surface color.
6. Avoid - do not - allow product to puddle and dry on the surface; use a blower to blow off excess, unabsorbed product.
7. Protect from rain and sprinklers for three hours after application.

For Vertical Walls, determine if one or two coats is necessary. Begin at the bottom using an overlapping spray pattern. Work from the bottom to the top. If product absorbs quickly, as soon as the sheen from the first application has disappeared, go back over the same area just treated again.

Previously Sealed Surfaces sealed with an acrylic or similar film former cannot be sealed with TSS250. Most surface areas previously treated with a penetrating sealer can be resealed. Always TEST an area first. CAUTION: treated surfaces sealed over with TSS250 can become very smooth and slick.

Applying TSS250 Over A Surface Previously Treated with TSS250 will slightly darken the substrate and may leave surface with a slight sheen. Repeated

applications will create a semi-gloss on the surface. Always TEST first.

### Application Over Wet Stone

Use a blower to blow all standing water off the surface. The surface should appear as if it had been blotted with a paper towel prior to sealing. Sealer cannot be applied over standing water including water droplets. Surface moisture content is not a factor.

Follow "Application" instructions above.

### CLEANING STAINS

Most stains can be cleaned with a mild soap and plastic brush or pressure washing.

The sooner a spill can be removed the less chance for a permanent stain to occur. Always clean stains such as a red wine, condiments etc. as soon as possible.

### SAFETY AND CLEAN UP

- Caution should be taken, as treated surfaces may be slippery until completely cured.
- Always wear protective gloves. Avoid getting on skin – product is an irritant and can burn with extended exposure. Do not get in eyes. Always wear protective eyewear; in enclosed areas it is advisable to wear an appropriate respirator to avoid possible irritation to breathing.
- Consideration should be made to wearing watches, eyeglasses, etc., as TSS250 can etch glass or discolor aluminum if allowed to dry.
- Clean equipment using water and mild soap. Never store spray equipment without cleaning and following manufacturer's recommendations for storage between usages.

### LIMITATIONS

- Limited shelf life – remains storage stable for approximately 6 months in sealed factory containers, use within 6 months where possible.
- TSS250 is an alkaline material. Substrates such as glass, wood, plastic, and metal should not be treated with TSS250.
- Will not prevent water penetration through material defects or structural cracks/fissures in treated area.
- Do not allow product to freeze.
- Although no protective treatment can be guaranteed to eliminate every stain, TEXAS STONE SEALERS LLC Sealants sealers offer protection against the most commonly encountered types of stains. We highly recommend that for maximum protection, soils and spills be cleaned while still fresh, and not be allowed to dry or be scuffed across a wider area. If left standing too long,



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even on a surface treated with a TEXAS STONE SEALERS LLC sealer, certain liquids and soils may leave some discoloration after cleaning.

**COVERAGE RATE:** Coverage will vary depending on porosity and absorption (200 sq ft -450 sq. ft. per gallon)

**PACKAGING:** TSS250 is available in 1-gallon/3.78 L bottles, 5-gallon/18.9-liter pails and 55-gallon drums.

**CAUTION! HARMFUL IF SWALLOWED - EYE, SKIN AND RESPIRATORY IRRITANT – USE ADEQUATE VENTILATION**

If swallowed DO NOT induce vomiting. Call physician immediately. In case of: Eye contact - flush with large amounts of room temperature water for 15 minutes. Skin contact- wash thoroughly with soap and water. Irregular or stopped breathing-administer oxygen, give artificial respiration. Get medical attention (immediately). Do not breath vapors or spray mist. Wear respirator approved by NIOSH. (NIOSH/MSHA TC 23C or equivalent).

**FOR EXTERIOR & INTERIOR USE**

**Keep Out of Reach of Children**

**WARRANTY:** The information and recommendations made are based on our own research and the research of others and are believed to be accurate. However, no guarantee of their accuracy is made because we cannot cover every possible application of our products, nor anticipate every variation encountered in natural stone, masonry and concrete surfaces, job conditions, and methods used for application. The purchasers shall make their own tests to determine the suitability of such products for a particular purpose.

TEXAS STONE SEALANTS LLC warrants this product to be free from defects. Where permitted by law, TEXAS STONE SEALERS LLC makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of merchantability or fitness for particular purpose. TEXAS STONE SEALERS LLC'S liability shall be limited in all events to supplying sufficient product to re-treat the specific areas to which defective product has been applied. Acceptance and use of this product absolve TEXAS STONE SEALERS LLC from any other liability, from whatever source, including liability for incidental, consequential or resultant damages whether due to breach of warranty, negligence or strict liability. This warranty may not be modified or extended by representatives of TEXAS STONE SEALERS LLC, its distributors or dealers.

**CUSTOMER CARE** Factory personnel are available for product, environment, and job-safety assistance with no obligation. Call 877-333-8188 and ask for Technical Support.

Manufactured for TEXAS STONE SEALERS LLC by Serveon Sealants LLC, Houston, Texas.