



Product Data Sheet and Application Guide

NATURAL STONE SEAL – TSS100WB

Breakthrough water based protection technology that prevents efflorescence

OVERVIEW: TSS100WB is a breakthrough, modified silicate water repellent technology for preventing efflorescence in concrete, materials containing Portland cement and alkali surfaces such as limestone, marble or grout. Efflorescence can also be found in many types of building surfaces including stucco, masonry, brick, natural stone, clay, ceramic tile and even wood. Natural Stone Seal TSS100WB creates a state-of-the-art nano based network forming a virtually impervious barrier to capillarity - the movement or transmission of water or moisture and salts and other minerals contained in the moisture/water through masonry and natural stone. TSS100WB provides long lasting protection without altering the natural appearance of the substrate.

In addition to preventing efflorescence, TSS100WB is also a powerful surface sealer strengthening the surface while forming a virtually impervious barrier to water and dissolved materials in water. The tetrahedral silicate monomer technology incorporated in TSS100WB provides water repellent protection superior to silane and siloxane emulsions, silicates, petroleum distillates and other common water repellants.

TSS100WB's advanced technology produces application friendly properties, including ease of application and rapid curing for quick usability and service. Treated surfaces also strongly discourage the growth of discoloring mold and mildew.

ADVANTAGES

- Rapid drying; dries in one hour or less during summer temperatures
- Long Life: typically, three to five years
- Revolutionary efflorescence repellency
- Salt water proof – prevents salt water erosion
- Only one saturation coat normally required
- Superior coverage
- Strong resistance to molds, fungus, algae
- Lengthens the life of the substrate

FEATURES

- Easy to use, easy to apply, fast drying
- Small molecular size allows deep penetration
- Prevents efflorescence, great for pavers
- Retains natural look on most stone
- Treated surfaces do not trap moisture
- Low odor; use inside or outside

- Makes stain and dirt clean up much easier
- Superior water beading
- Can be applied on a damp surface
- Water based – VOC compliant
- Non-flammable

PROTECTION FOR:

- natural stone: (travertine, flagstone, limestone, sandstone, cantera, quartzite, etc.),
- stucco, grout, mortar,
- concrete, pavers
- non-glazed brick,
- artificial stone,
- non-glazed tiles,
- unpolished/honed granite and marble.

USES: TSS100WB is designed for use as a efflorescence repellent on patios, decks, walkways, floors, showers, decorative landscape stone, around swimming pools, spas and waterfalls; the product will prevent the penetration of salts and minerals contained water causing efflorescence in structurally sound, crack-free, treated surfaces. TSS100WB will inhibit capillarity from within a substrate and penetration of exterior salts and forms a revolutionary water resistant seamless surface matrix.

PREPARATION OVERVIEW: Protect people, passersby, home/building occupants, vehicles, plants, painted surfaces, anodized aluminum and all non-masonry surfaces from product, residue, splash, fumes and wind drift. Use polyethylene or other proven protective material. Surface to be treated **must be clean**. TSS100WB can be applied on a damp surface - not wet or with standing water. Allow substrate surface 24 hours to dry after heavy rain. Remove dirt, oil grease and paint&waxes, efflorescence and surface sealers. Let new concrete cure 28 days before treating. Ensure fresh air entry and cross ventilation during application and drying. Extinguish all flames, pilot lights and other potential sources of ignition during use and until all vapors are gone. Do not dilute or alter.

ALWAYS TEST

TEST ALWAYS a small area of each surface to confirm suitability and desired results before starting overall application. Test with the same equipment, recommended surface preparation and application



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procedures.

SURFACE AND AIR TEMPERATURES: For maximum effectiveness surface and air temperatures should be 50-90°F (10-35°C). Dry time will be slower at lower temperatures.

EQUIPMENT: The easiest method of application is with a low-pressure pump-up sprayer which can be purchased inexpensively at most hardware stores or with a brush or roller.

APPLICATION: Always wear protective gloves. Avoid getting on skin – product is an irritant. Do not get in eyes. Wear protective eyewear. Before applying read all sections above and below; do not dilute or alter; ALWAYS TEST a small area of each surface to confirm suitability and desired results before starting overall application. Test with the same equipment that will be used in application.

General Horizontal Application:

- Apply an even saturation coat of TSS100WB with either a brush, roller, low-pressure pump up sprayer or high pressure commercial spray rig; rinse out pump up sprayer, wash brush or roller with water when finished.
- Complete area to be treated in one continuous saturation application – overlapping a previously applied area can result in a darkening of the overlapped area.
- Product can be applied as long as the product continues to be absorbed and surface remains dark (very damp to wet appearing). Porous stone such as limestone will absorb much more sealant than a less porous stone such as a typical flagstone.
- Once a thorough saturation coat has been applied additional coats although continuing to be absorbed are not necessary but can be applied at the discretion of the applicator.
- Allowing product to puddle and dry on the surface should be avoided; use a blower to blow off excess product or a clean brush/broom to evenly distribute. Minor puddling will not leave product residue.

- Protect from rain and sprinklers for one – two hours after application.

Vertical Application

- For best results apply on a dry surface
- Apply an even saturation coat
- Apply from the bottom up. Apply enough material to create a 6” to 8” rundown below the spray contact point. When using a brush or roller also saturate the substrate – vertical surfaces leave less time for penetration.

- Brush out heavy runs and drips that do not penetrate after a few minutes – these can leave visible drip lines if allowed to dry.
- Protect from rain or sprinklers for one – two hours after application.

TRAFFIC: Pedestrian generally 1 hour; light vehicular, 2 hours. Note: Dry time is dependent on temperature and humidity. Cooler weather or high humidity may affect dry time and availability for use.

ADDITIONAL COATS may slightly darken the substrate - be sure to test first. Once dry, if additional coats are desired, (one application is normally sufficient) apply additional product, then with a brush or broom spread product to break surface tension – product will change from beading on the surface to wetting (spreading out on the surface) and will then be absorbed.

LIMITATIONS

- Limited shelf life – remains storage stable for approximately 24 months in sealed containers.
- May damage glass, always protect
- May slightly darken some stone – always test a small area prior to application
- Will not prevent water penetration through material defects or structural cracks/fissures in the material.
- Do not allow product to freeze.

APPROXIMATE SHIPPING WEIGHTS

1 Gallon (4.39L)	8.50 lbs.
5 Gallon Pail (21.94)	42.50 lbs.

DILUTION

Apply as packaged. Do not dilute or alter or use for applications other than as specified.



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COVERAGE RATE:

Coverage varies based on porosity and texture of the surface:

- Porous substrates (medium to high) typical flagstone 140 – 200 sq. ft. / gal.
- Non-Porous, low porosity substrates: 200 – 350 sq. ft. / gallon.

Reapplication: Reapply every three to five years for most exterior applications.

CAUTION! HARMFUL IF SWALLOWED. EYE, SKIN AND RESPIRATORY IRRITANT.

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

Use with adequate ventilation

Keep Out of Reach of Children

24-Hour Emergency Information:

INFOTRAC at 800-535-5053

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 and masonry 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.

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