



DATA SHEET & APPLICATION GUIDENEW TSSPRO-500 ULTIMATE STONE ENHANCER

Deep Color Enhancer and Premium Sealer
Prevents Salt Water Erosion & Efflorescence

DESCRIPTION: Ultimate Stone Enhancer – TSSPRO500 is ideal for providing deep color enhancement on a variety of substrates and for premium protection on porous stone, concrete, masonry, stucco, cast stone, mortar grout joints, plaster and other porous substrates. TSSPRO500 prevents saltwater erosion, resists water based stains, weatherproofs, protects, resists efflorescence in addition to bringing out the rich colors in a variety of substrates curing with a natural matte finish. It is perfect for bringing out the colors in flagstone and other multi-colored and veined stone. TSSPRO500 has three chemical components that uniquely work and sequence together. The first is a tetrahedral silicate monomer that forms a true nano-scale molecular structure that rises to the surface, the second is an organic polymer that enhances the features of the substrate, the third is a chemical agent that helps disburse the sealer on the surface for improved coverage and penetrate deeper into the substrate.

FEATURES AND BENEFITS: TSSPRO500 brings out the maximum color enhancement and is a durable, exceptionally long-lasting deep penetration sealer that cures with a natural matte finish. It provides exceptional coverage on porous substrates, is long lasting, has strong resistance to UV rays and efflorescence; fast drying and powerful bonding are more of exceptional properties of this enhancing sealer. TSSPRO500 was designed for extremely porous substrates but is often used on denser materials/stone to achieve enhancing color effects. In addition to premium enhancing, TSSPRO500 prevents saltwater erosion, weatherproofs, protects, and preserves rock and masonry patios, pool copings, walls, walk ways, waterfalls, and other landscaping structures will resist many stains and make the removal of stains much easier - always test a small area for color change before applying.

- Deep, vibrant color enhancement
- Prevents salt water erosion, resistant pool chemicals
- Extremely strong beading - breathable
- Weatherproofs – excellent water based stain resistance
- Easy, simple application – can be applied with pump up sprayer, paint roller or brush
- Deep penetration - molecular bonding
- Exceptionally long lasting; up to five years
- Perfect for flagstone, limestone, sandstone, moss rock and other extremely porous substrate
- Complete cure in 24 hours; ready for pedestrian or vehicle traffic in two hours
- Resistant to pool chemicals
- Re-sealable for future application
- Helps prevents UV damage; breathable
- Ready to use, no mixing, no thinning
- Water based, VOC compliant

INSTALLATION

SUBSTRATES AND SURFACES: TSSPRO500 will darken and enhance most stone and materials.

TSSPRO500 preserves and enhances rock and masonry patios, pool copings, patios, walls, walk ways, unglazed tile floors, waterfalls, bathrooms and showers. Use on previously coated or uncoated, vertical or horizontal, interior or exterior surfaces such as natural (flagstone, moss rock, cantera, travertine, slate), and artificial stone, concrete products, Mexican tile, unglazed tiles, brick, aggregate, grout, mortar joints, masonry, stucco, cast stone and wood; can be used around pools, fountains, showers etc.

ALWAYS TEST each type of surface for color change, penetration, appearance and protective ability before overall application. **BE SURE** to test if application area has been sealed before (another product) for product compatibility. **BE SURE** test area and application area are dry before application. Test area and the surface to be treated can be damp, damp is defined as touching with a tissue and tissue does not get wet. If the area to be treated has been underwater for long periods such as a waterfall or the backside of the substrate is adjacent to water a minimum of 48 hours will be necessary. If unsure of substrate moisture content, test with a moisture meter.

PREPARATION: Protect passersby, building occupants, people, vehicles, property, plants, painted surfaces, windows 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 and dry. Remove dirt, oil, grease, paint, waxes, efflorescence and surface sealers. 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.

CLEANING THE SUBSTRATE: Be sure the area to be treated is clean and free of dust, removable stains, rock particles, leaves, etc. Power washing the area to be treated is the preferred cleaning method. TSSPRO500 can be applied as soon as the surface dries. Temperature, humidity and substrate porosity determine the length of drying time between power washing and sealant application. Lower temperatures or high humidity slow evaporation; porous substrates absorb more water and consequently take longer to dry.

- Pressure wash using the minimum amounts of water required to clean the surface – avoid saturation
- Immediately blow dry all water from surface,
- Let dry for 1- 2 hours or until surface appears and feels dry.

APPLICATION: Before applying read all sections above; do not dilute or alter; TSSPRO500 is for interior and exterior application. **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 – Read entire section before attempting application

- Apply an even saturation coat of TSSPRO500 with either a brush, roller, or pump up sprayer; an



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inexpensive pump up sprayer is recommended for application.

- Application should be done Wet on Wet. Two applications are recommended for moderate enhancement. Additional applications will continue to darken/enhance most substrates.
- Saturate the substrate with a single coat. When applied to a dry surface the surface will initially be wet as a result of applying TSSPRO500, then as product is absorbed, it will turn darker. Apply a second coat.
- Depending on the porosity of the stone and the enhancement desired additional applications/coats may be desired; apply subsequent applications once the prior application has been absorbed.
- DO NOT apply a second or multiple applications to glazed or hard surface materials – I.E. where product is fully absorbed with one application.
- ALWAYS wipe or blow off/remove excess material not absorbed or in depressions (puddling). **If product is not absorbed and is allowed to dry on the surface, a white residue will be left that is unsightly and very difficult to remove.**
- Additional coats cannot be applied once TSSPRO500 has fully cured.
- Protect from rain at least three hours after application.

General Vertical Application

- Same as for Horizontal Application except as follows:
- Apply from the bottom up. Allow a six to eight-inch rundown below the contact point – saturate the surface; vertical surfaces leave less time for penetration.
- Brush out any runs and drips that do not penetrate after a few minutes – these can leave visible drip lines if allowed to dry.

CURE TIME

TSSPRO500 requires 24 hours to fully cure. Beading will begin before full cure and maximize at full cure. Treated areas are ready for traffic in two (2) hours in normal summer temperatures, slightly longer in cooler temperatures.

SURFACE AND AIR TEMPERATURE

- Ambient air temperatures ideally should be 50 - 95° F (10-35°C); Temperatures above 95°F are marginal, that is the carrier will evaporate too fast not allowing the active silicone to chemically react with the substrate AND CAN DEPOSIT A WHITE FILM ON THE SURFACE.
- When surface temperatures are too hot, chemical solvent elements of the product called the carrier will flash off (evaporate) too fast and preventing the remaining product elements to form an adequate bond which 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 55°F will cause the product to cure slower.
- Drying time will be extended or shortened depending on the temperature and humidity.

SURFACE DRYNESS - HUMIDITY

Moisture plays a key role in activating TSSPRO500. If the relative humidity is below 35% mist or lightly spray water over the area to be treated. Blow off excess water so there is no pooling – TSSPRO500 will float on water and not bond. Applying Ultra Porous to a damp surface will not affect the curing process and in low humidity areas will both help and hasten curing.

COVERAGE AND COATS

Application rates for natural stone, tile, grout, concrete, and masonry will vary depending on the porosity of the substrate to be treated. Some areas within some stones will absorb more quickly than other areas.

Approximate Coverage Per Single Application:

- Low (denser) 500 sq. ft./gal; Medium Porosity 250 - 350 sq. ft./gal
- High Porosity (very porous) 200 – 250 sq. ft./gal

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

PACKAGING

- 1 Gallon (3.79 Liter) Units
- 5 Gallon (18.9 Liter) Units

LIMITATIONS

- Limited shelf life – remains storage stable for approximately 12 months in sealed containers.
- TSSPRO500 is VOC compliant and meets regulatory VOC specifications for all states including the following: California Air Resources Board SCM Districts, South Coast Air Quality Management District, Maricopa County, AZ. Northeast Ozone Transport Commission,

Manufactured and marketed in compliance with, USEPA AIM VOC regulations (40 CFR 59.403)

CAUTION HARMFUL OR FATAL 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.

FOR EXTERIOR & INTERIOR USE ~ Use with adequate Ventilation

Keep Out of Reach of Children