



For Exterior Use

Product Data Sheet and Application Guide TSSPRO750 ALGAE FREE

Keeps Substrates Free of Discoloring Green/Black Algae
Water Base ~ Acrylic ~ Matte/Low Sheen Finish

DESCRIPTION: TSSPRO750 exhibits exceptional performance at preventing the growth and regrowth of green, black and other colors of algae's, and many fungi and mold species that discolor the appearance of patios, sidewalks, driveways, landscaping and other outdoor areas.

Outdoor substrates are exposed to many elements that cause wear and damage over time, even such durable surfaces such as concrete, grout and cementitious based coatings. Algae and fungi growth on these surfaces will cause problems that are not only unsightly, unhealthy and costly to remediate, but can erode the underlying substrate. TSSPRO750 eliminates such unwanted growth.

Algae Free prevents the discoloring, ugly, growth of most algae, fungi and molds found on brick, masonry, stucco, grout, concrete, stone, vinyl, tile, plaster, roofs and even wood for up to two years or more.

Algae Free bonds to a substrate forming a seamless, durable barrier. Once cured the surface is harmless to humans and pets.

WATER-BASED ACRYLIC: TSSPRO750 is a water-based, long-lasting, durable acrylic formulation with a matte to slight sheen finish depending on the density of the substrate. Porous surfaces will have a matte finish, denser surfaces a low sheen finish. TSSPRO750 forms a strong, hard, mar and scratch resistant finish that, in addition to preventing algae growth, is water resistant and moderately resistant to many chemical, salt and organic stains, oils and contaminant penetration. It will darken colored, (medium to dark surfaces) and will have only a slight to moderate color change on most light surfaces. Always test to determine suitability of color change.

MICROORGANISM FUNCTIONALITY: Algae Free is a preventative product; it is not a pesticide. Algae Free prevents homeostasis, it suppresses the life sustaining functionality for algae, fungi and similar groups. When microbes, such as bacteria, algae, many molds and fungi that cause stains, odors and product deterioration encounter the TSSPRO750 surface, Algae Free disrupts the key cell function of homeostasis so that the microbe cannot function, grow or reproduce.

The microbicides used in TSSPRO750 are registered for exterior use with the EPA.

WHERE TO USE: Use in exterior areas that have algae/mold/fungi discoloration. These areas usually will have a combination moisture (ongoing damp conditions), shade (low sunlight), high humidity and higher temperatures. Typically, the colors are green or black; TSSPRO750 is also effective against other colors of algae, however, it may not be effective against every color or specie of algae regardless of color.

Do not use indoors, on surfaces where food is served or surfaces where fish are contained.

FEATURES AND BENEFITS: Algae Free protects and keeps treated surfaces clean, attractive to look at, maintaining value while keeping surfaces environmentally healthy.

- Keeps surfaces free of discoloration caused by most algae, fungi and molds
- Reduces and eliminates mold and mildew odors where applied
- Water resistant – provides dimensional stability
- Low viscosity – can be applied with airless or pump up sprayer.
- Produces a durable matte to low sheen finish barrier that protects the substrate
- Only a single coat is required
- Longevity typically up to two years or longer
- Rapid drying – dries in one hour, then ready for pedestrian traffic
- Re-sealable; can be reapplied over itself for protection extension
- Can be applied over most substrates and previously sealed surfaces/substrates
- Will not yellow or delaminate
- Resistant to blushing
- Moderately resistant to vehicle oils, many fluids and stains
- Ready to use, no mixing, no thinning



INSTALLATION

SUBSTRATES AND SURFACES: TSSPRO750 Can be used on previously coated or uncoated, vertical or horizontal, exterior surfaces such as brick, masonry, stucco, grout, concrete, stone, tile, plaster, roofs, and wood with the exception of surfaces previously treated with solvent based acrylic sealers. If previously treated test an area to be sure bonding occurs. Do not apply on polished or honed surfaces. TSS750 will leave a textured looking surface.

ALWAYS TEST each type of surface for appearance and bonding before overall application. **BE SURE** test areas and application areas are **THOROUGHLY DRY** before application. **BE SURE** no water is applied or rain occurs for minimum 24 – 48 hours prior to



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application depending on amount of rainfall – see exception under Pressure Washing. If area to be treated has been underwater for long periods such as a waterfall or the backside of the substrate is adjacent to water, additional drying time will be necessary. If unsure of substrate moisture content, test with a moisture meter. The area to be treated must be thoroughly dry. A moisture meter should show 10 or less.

PREPARATION: Protect passersby, building occupants, people, vehicles, property, plants, painted surfaces and all non-masonry surfaces from product, residue, splash, fumes and wind drift. Use polyethylene or other proven protective material. Algae Free is not a cleaner. The surface to be treated **must be clean and dry**. Allow 24 hours to dry after heavy rain. Remove dirt, oil, grease, paint, waxes, efflorescence and surface sealers. Let new concrete cure 28 days before treating. Extinguish all outdoor flames, pilot lights and other potential sources of ignition during use and until all vapors are gone.

PRESSURE WASHING: In many instances power washing and product application can be done in the same trip. 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. If garden hose with high pressure nozzle is used allow 24 hours minimum for drying.
- Immediately blow dry all water from surface
- Let dry for 1-hour minimum –surface should appear and feel totally dry, NOT damp. If unsure wait at least 24 hours. Use a moisture meter if available – reading should be 10 or less.
- TSSPRO750 is blush resistant; if too much moisture is present and although blushing may not occur, the additional moisture can reduce the water resistance and life of the coating.

SUBSTRATE COLOR: Algae Free can darken substrates/stone. It will darken most colored, (medium to dark surfaces) and will have only a slight to moderate color change on most light surfaces. Always test to determine suitability of color change prior to application.

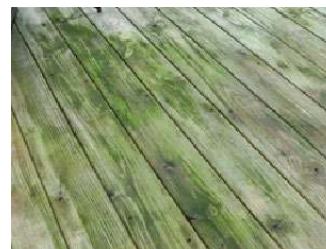
APPLICATION: Before applying read all sections above; do not dilute or alter; for interior and exterior application. **ALWAYS TEST** a small area of each surface to confirm suitability and desired results before starting overall application. Test with the same equipment that will be used in application.

General Horizontal Application

- Apply an even coat of TSSPRO750 with either a brush, roller, pump up or high-pressure commercial spray rig.
- Only one application is required. Additional coats can be applied. Additional coats will increase algae, water and oil resistance. Always test prior to applying additional coats for acceptable color change.
- Work in sections of no more than 50 sq. ft. Saturate a section with a single coat. With a roller or blower, remove excess (puddling) on the surface before it dries. Repeat process for other sections maintaining a wet edge in order to prevent overlap marks.
- Remove excess product and depressed areas where puddling may have occurred with brush, roller or blower.
- Exceeding 3 mils total dry-film build-up may affect overall durability.
- Protect from rain for a minimum of 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 bonding.
- Brush out any runs and drips that do not penetrate after a few minutes – these can leave visible drip lines if allowed to dry.



Works Great on Wood Decks

CLEAN UP: Flush with water if using pump up or commercial sprayer.

SURFACE AND AIR TEMPERATURE

Surface and air temperature play key roles in a successful application.

- Ambient air temperatures ideally should be 55 - 85° F(12.8-29.40C); Temperatures above 85°F can be marginal and need to be checked for “spidering”; spidering is where product when being applied with a sprayer forms spider like webs immediately after leaving the nozzle and before hitting the surface; “spidering” occurs when the ambient temperature is too high. If ambient air



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temperature is above 85° test for spidering- if spidering occurs abort the application

- When surface temperatures are too hot, water 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.

| | |
|---------------------------------------|---|
| CAUTIONS: Weight Per Gallon | 8.2 lbs. |
| Color | White |
| Viscosity at 77° F | 80 ku |
| Shelf Life | 1 Year unopened |
| Gloss | Low sheen |
| Temperature Resistance | 225° F |
| Chemical Resistance | Moderate |
| Flash Point | None |
| V.O.C. | < 100 Grams/Liter |
| Recommended DFT. (dry film thickness) | .75 – 1.5 mils |
| Film Thickness | Wet: 2.5–4.0 mils; |
| Dry Time | Touch 10 – 15 minutes Handle 1 Hour Traffic 2 hours |
| Application | Pump Up Sprayer, Dip, Airless Spray, brush, roller |
| Clean Up | Soap & Water Flush |
| Full Cure Relative Humidity 50% | 24 Hours |

* NOTE; Percentages are + or - 1%

Approx. Shipping Weights

1 gallon (18.9L) 8.2 lbs.

5-gallon metal pail (94.5L) 41.0 lbs.

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: acrylic-based products like TSSPRO750 can blush, IE. turn white if the acrylic comes in contact with moisture in the stone/substrate during the products drying cycle.

- Blush typically does not develop immediately and typically shows up in 24 hours as white blotches in irregular areas.
- If application is being done in the morning, make sure any dew has evaporated; use a blower to disperse dew and hasten evaporation.

- Do not apply if moisture meter reads higher than 10
- Be sure surface is thoroughly dry before proceeding.

TRAFFIC: Pedestrian 1 hour; light vehicular, 2 hours.

CAUTIONS

- This product can make the surface slippery when wet.
- Do not apply on polished or honed surfaces. CS200 will leave a textured looking surface.
- If the surface appears slippery or slick after curing, wait 48 hours, then power wash the treated area. This will normally significantly reduce slipperiness. Most initial slipperiness when present will dissipate after two weeks.
- A hand-held moisture meter is inexpensive and a recommended application tool.
- Do not apply when wind is present that can carry product beyond the application area
- Where stone is adjacent to pool water subject to water spray, part of waterfall or the back side of the stone is in water, such as a spa, adequate drying prior to application may require an extended period of time.

LIMITATIONS

- Do not apply over active surfaces previously sealed with solvent based acrylic sealers
- Do not allow to freeze
- Limited shelf life – remains storage stable for approximately 12 months in sealed containers; always keep container closed when not using; shelf life will be shortened once opened.

PACKAGING

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

PRODUCT INFORMATION

Dilution

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

COVERAGE RATE:

Coverage varies based on porosity and texture. Always test. 175 to 250 sq. ft. per gallon depending on porosity of substrate; very porous substrates will absorb more product and have less coverage.



CERTIFICATIONS & QUALIFICATIONS

| VOC REGION | COMPLIANT |
|------------|-----------|
| FEDERAL | YES |
| OTC | YES |
| OTCII | YES |
| CARB | YES |
| CARBO7 | YES |
| UTAH | YES |
| AZMC | YES |
| SCAQMC | NO |

Please contact your nearest TCA office for assistance on the local VOC compliance in the area of intended use.

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 impaired breathing-administer oxygen give artificial respiration. Get medical attention (immediately). Do not breath vapors or spray mist.

CALIF. PROP. 65 • CHEMICAL WARNING (CALIFORNIA HEALTH AND SAFETY CODE #25249.5 ET SEQ). WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects or reproductive harm. Use proper protection and adequate ventilation, when using product.

FOR EXTERIOR USE ~ Use with adequate Ventilation

Keep Out of Reach of Children

24-Hour Emergency Information:
INFOTRAC at 800-535-5053

CUSTOMER CARE

Factory personnel are available for product, environment and job-safety assistance with no obligation. Call 877-333-8188.

Customer Care - technical support. Please visit our website at www.texasstonealers.com