



TYPHOON SEALER
TDS 177

PURPOSE

Surface Enhancement	<ul style="list-style-type: none"> Moderately enhances with semi-gloss finish - the extent is dependent on the surface
Joint Stabilization	<ul style="list-style-type: none"> Hardens joint sand which reduces sand washout, weeds and insect infestation
Surface Protection	<ul style="list-style-type: none"> Guards against salt, mild acid, alkali and other corrosives Provides stain resistance which makes cleaning and maintenance easier Antifungal film protection protects sealer film from mold, moss and algae

INDUSTRY'S MOST TRUSTED MODERATELY ENHANCING JOINT STABILIZING SEALER

FEATURES

Hardens Joint Sand	<ul style="list-style-type: none"> Prevents sand erosion and deters weeds/insects
One Easy Application	<ul style="list-style-type: none"> Protects surface & stabilizes sand joints in one application
Surface Appearance Booster	<ul style="list-style-type: none"> Moderately enhances surface tone with semi-gloss finish
Advanced Premium Self-Crosslinking Acrylic Co-Polymer Formula	<ul style="list-style-type: none"> Will not yellow under exposure to sunlight Offers long term durability
Fungal Guard	<ul style="list-style-type: none"> Protects sealer film from mold, moss & algae
Breathable, Immediate Application	<ul style="list-style-type: none"> Will not trap naturally occurring efflorescence and/or moisture. Can be applied on a new, clean and dry surface without waiting.
Film Forming, Water Based, LOW VOC Sealer	<ul style="list-style-type: none"> Consistency of water, milky white in appearance when applied, dries clear Environmentally friendly, EPA compliant
Temperature Stable	<ul style="list-style-type: none"> Cured sealer is freeze resistant to -60°F (-51°C) and is stable up to 180°F (82°C).

SUITABLE SURFACES

- Concrete & Clay Pavers
- Natural & Manufactured Stone **MUST TEST FIRST***
- Flat and Stamped Concrete
- Travertine
- Clay Roof Tiles
- Segmental Retaining Wall Blocks
- Concrete Walls
- Exposed Aggregate
- Not recommended for marble, granite, ceramic tile and polished, honed or high gloss surfaces as they do not have enough surface texture to absorb the sealer

PERFORM A TEST IN A SMALL AREA TO VERIFY PERFORMANCE AND APPEARANCE BEFORE APPLYING.

***Due to the variability and physical make-up of natural stone this step is required to verify desired performance and appearance.**

COVERAGE PER GALLON

APPLICATION	SQ FEET	SQ METERS
Sealing With Joint Stabilization	80-120	7.4-11.1
Sealing Only Without Joint Stabilization	150-250	13.9-23.2

Coverage based on single application. Actual coverage may vary depending on the type, age, condition, joint size and porosity of the surface, application method and other local conditions such as temperature. For more uniform coverage or if desired, a light second coat may be applied after the first coat has dried to the touch.

SURFACE PREPARATION

- **Test First:** Test first on a small inconspicuous area to determine suitability and if desired results are achievable with this product on your specific surface.
- **Clean Surface:** Surface should be thoroughly cleaned and prepared with Trident's cleaners. It should be free of oil, dust, loose material, and previously applied sealer other than Trident's Typhoon sealer. Kill and remove growth of any mold, mildew, fungus or algae. Thoroughly rinse all cleaner residue prior to sealing.
- **Allow surface to dry for a minimum of 24 hours** after cleaning and/or rain before joint sand installation or sealer application.
- **Joint Stabilization Preparation:** Paver joints should be no more than 3/4" wide and filled with dry correctly graded joint sand that meets ASTM C144 standard. Compact surface with vibratory roller or compactor after sweeping sand into joints to minimize air voids. Top level of sand should be 1/8" below the bottom of chamfer edge or on non-chamfered surfaces 1/8" down from top of surface.
- Prior to sealing, use a **leaf blower to remove dust, debris and fine sand particles** from the surface.
- **Cover/Protect** nearby landscape, vehicles and buildings from overspray during application.

APPLICATION CONDITIONS

- Apply when day and night temperatures are between 40°F - 95°F.
- Allow surface to dry for a minimum of 24 hours after cleaning and/or rain before sealer application.
- Avoid windy conditions to keep sealer spray from drifting.
- NO pre-blending or mixing required. **DO NOT DILUTE.**
- Excessive applications can cause surface to become slippery. Some surfaces may require an anti-slip additive to increase friction.

APPLICATION TOOLS

- Low pressure, high volume sprayer
- Slit foam roller
- Foam squeegee for joint stabilization

APPLICATION INSTRUCTIONS

Typhoon is designed for a one-coat application but if desired an additional light spray coat can be applied only after the first application has dried to the touch.

Spray & Back Roll Application (no joint stabilization):

- To apply sealer, hold sprayer nozzle perpendicular to the surface, spray and overlap each spray pass.
- **Before product dries**, back roll with a foam roller to eliminate any pooling and to even out sealer.

Flood Coat & Squeegee Application for Joint Stabilization:

- Follow coverage guidelines for joint stabilization.
- Spray sealer to flood joints ensuring proper sand penetration for stabilization.
- Use a foam squeegee to direct excess sealer into the joints. On an uneven surface, it is recommended to then back roll with a foam roller to even out the sealer and eliminate pooling.

DRY TIME

- Surface will be dry to the touch in 60 minutes assuming 65-85°F. Low surface or air temperature will extend dry times.
- Protect the surface from dust, rain, condensation, and traffic while drying.
- Area can be open to foot & vehicular traffic in 24 hours depending on site conditions.

CLEAN UP

For tools and equipment, use soap and water before product is allowed to dry.

MAINTENANCE

Sealed surfaces should be properly maintained to get the best long-term performance from both the pavement and the Typhoon sealer.

- Keep surface clear of buildup of dirt, grime and stains by rinsing with cold, clean water.
- If staining of surface does occur, Trident Sealers are compatible with Trident's Cleaners which can be used to remove general dirtiness, organic and inorganic stains like oils, food and beverages and mineral deposits from the surface.
- Test cleaners in inconspicuous area prior to cleaning.
- Be sure to check dilution rates for all cleaners to determine if they are ready to use or to determine appropriate dilution rate especially for sealed surfaces.
- Efflorescence should be removed using Trident's White Water efflorescence cleaner and a pressure washer, in conjunction with agitation from a natural fiber brush. Care should be taken to ensure that excessive pressure is not utilized, as it may erode joint sand and could damage the surface itself.
- Thoroughly rinse all cleaner off the surface before sealing.

RE-APPLICATION

Re-application may need to be carried out every 2 - 3 years depending on the type of surface and environmental/site conditions.

PACKAGING

5 Gallon Pails
55 Gallon Drums
275 Gallon Totes

STORAGE

- Store in a cool, well-ventilated place
- Do not allow to freeze

SHELF LIFE

2 years when unopened and properly stored

VOC CONTENT

< 99 g/L

PRECAUTIONARY INFORMATION

- **KEEP OUT OF REACH OF CHILDREN**
- Use in a well ventilated area
- Do not breathe vapors, spray or mist
- Wear protective gloves, clothing, face and eye protection
- Wash thoroughly after handling

EMERGENCY & FIRST AID MEASURES

- **IF SWALLOWED:** Drink plenty of water. Call a POISON CENTER or physician if you feel unwell.
- **IF ON SKIN:** Wash with plenty of soap and water or shower. Get medical attention if irritation occurs.
- **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if eye irritation occurs.
- **IN CASE OF FIRE:** Use water, water fog, CO₂, dry chemical, or alcohol resistant foam to extinguish.

See Safety Data Sheet for complete information.

LIMITATIONS

Protect sealer from freezing and store in a cool place when not in use. In winter, keep in heated area. This sealer is not recommended for marble, granite, ceramic tile, and polished, honed or high gloss surfaces as they do not absorb the sealer. A test area is ALWAYS recommended to determine product suitability and compatibility with your specific surface before use and to verify if desired results are achievable. Due to the inherent variability of natural stone and clay products, long term performance may vary. Please consult with Trident prior to sealing if there are concerns. The use of an anti-slip additive is recommended for increased traction on surface inclines or around consistently wet areas such as pool deck surrounds. Do not use below grade or where water is always present. Never try to seal wet or damp surfaces. A minimum air temperature of 40° (5°C) must be maintained for a period of 24 hours prior to application. Air temperature should not exceed 95°F (35°C) during application. Work should cease in inclement weather (rain or strong wind).

WARRANTY

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