EVOLUTION SURFACE SOLUTIONS

DATA SHEET

TRÜNANO™ MULTI-SURFACE SEALER

Complies with SCAQMD
VOC: Zero g/L
LEED 7 Points CARB

DESCRIPTION

TruNano™ Multi-Surface Sealer is a clear, water-borne, invisible, breathable sealer designed to protect stone, concrete, slate, wood, unmodified grout and unglazed tile from normal destructive forces. TruNano™ Multi-Surface Sealer provides a long lasting barrier that provides superior resistance to water, mold, airborne dust and dirt, efflorescence, alkali, freeze/thaw damage and spalling. TruNano™ Multi-Surface Sealer protects against damage resulting from moisture intrusion and is resistant to chloride ion penetration. TruNano™ Multi-Surface Sealer is UV stable and can be applied in both exterior and interior applications.

NOTE: Do not use on flexible surfaces such as elastomeric membranes, fabrics and textiles.

SURFACE

Natural stone, concrete, slate, wood, unmodified grout and unglazed tile.

DO NOT USE ON ASPHALT SUBSTRATES OR SURFACES!

SOLUTION

Moisture, Stains, Dirt and Mold.

MATERIAL RESISTANCE CHART

CHEMICAL	RESULT
Moisture	No Effect
Stains	No Effect
Mold	No Effect
Ice	No Effect

CHARACTERISTICS

Color:	Clear
Finish:	Invisible
Vehicle Type:	Water Base
Flash Point:	Zero
VOC:	Zero g/L
Weight per Gallon:	8.251 lbs

Breathable

COVERAGE

Substrate	Sq. Ft. / Gal.
Smooth Precast Concrete	400-600
Porous Concrete	300-400
Split Face Block	200-250
Fluted Block	200-250
Concrete Block	200-250
Brick (Clay)	50-300
Sandstone, Limestone, Slate	250-300
Stucco	250-300
Flagstone, Concrete Pavers	250-300
Unglazed Ceramic/Porcelain	400-600
Travertine, Tumbled Marble	300-400
Limestone	300-400
Honed Granite and Marble	400-600

NOTE: Coverage will vary depending on the porosity and texture of the substrate. Substrates with high porosity will require more product resulting in a lower coverage rate.

EXPECTED WEAR

TruNano™ Multi-Surface Sealer will protect the substrate, if properly maintained and provided the surface is not exposed to a highly abrasive atmosphere, for up to 3 to 5 years. It is highly recommended that the substrate be inspected on a annual basis to determine environmental wear on the sealed surface.

SURFACE PREPARATION

Prior to the application of TruNano™ Multi-Surface Sealer, all surfaces and substrates must be clean, dry, and in sound condition. It is extremely important that all oil, dust, grease, dirt, loose rust, and other foreign material be removed.

Removal of All Existing Coatings or Curing Compounds

To determine if the surface is sealed with another coating or curing compound, sprinkle water onto surface. If the water is absorbed and the surface becomes darker, it has not been sealed. If the water beads up, there is a coating or curing compound that must be removed to allow proper penetration.

Silicone Sealer Removal

If the surface has been previously sealed with a silicone sealer, the silicone must be removed entirely. To remove silicone sealers, clean surface with a solution of 80% water and 20% vinegar. Wet surface with water and vinegar solution and let stand 10 minutes. Remove solution and rinse thoroughly with clean water. Flush with fresh clean water. Surface must then be neutralized with a mixture of 50% baking soda and 50% water. Spraying neutralizing solution onto the surface and let stand, then rinse with clean water. Use of a hot water pressure washing system will enhance cleaning application.

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SURFACE PREPARATION - Continued

NOTE: pH level must be between 7 and 10. The rising moisture vapor emission rate must not exceed 3 pounds per 1,000 square feet (3 lb/1,000 ft²) over a 24-hour period as measured by the calcium chloride test method, ASTM F-1869. Surface measuring equipment can provide a wide variety of results.Tramex Concrete Encounter CME 4 digital moisture meter is recommended with a reading of 3% or below. If using a meter other than the Tramex, rely upon the ASTM F-1869 reading as a cross-reference.

Interior Surfaces

Clean surface to remove dirt, dust, grease, oil and loose particles. Remove all surface contamination by washing with a pH neutral cleaner, rinse thoroughly and allow the surface to dry thoroughly. Remove all existing paint.

Exterior Surfaces

If needed pressure clean surface to remove dirt, dust, grease, oil, loose particles, foreign material, coatings, chalk form release agents, moisture curing membranes, mildew, etc. Allow the surface to dry thoroughly. Concrete and mortar must be cured at least 10 days. On tilt-up and poured-in-place concrete, commercial detergents and sandblasting may be necessary to remove sealers, release compounds, and to provide an anchor pattern. Prepared concrete should have a pH of between 7 and 10.

APPLICATION INSTRUCTIONS

Test Area

Due to the wide variety substrates and the various environments, always test TruNano™ Multi-Surface Sealer in an inconspicuous location to ensure adhesion and determine that the desired look is achieved. There will be an enhancement or change in appearance from the natural surface.

CAUTION: If applying outdoors, make certain the ambient temperature is between 45° F and 105° F, and that there is no chance of rain for a minimum of 5 hours after the estimated time of completion of the coating process. Also make certain there will be no additional morning dew to make the surface damp again after it has dried.

Application

Protect surfaces that may need to be repainted, as it will affect the bond of the new paint. TruNano™ Multi-Surface Sealer will not harm plants or lawns or put hazardous chemicals into the soil or water. As a general rule, it is best to wipe off overlaps or spills as they occur. When sealing wood surfaces, it is best to apply TruNano™ Multi-Surface Sealer in a warm, dry environment, which opens the wood grain and allows the sealer to penetrate deep into the surface.

Roller Application: Shake TruNano™ Multi-Surface Sealer container for several minutes to resuspend the nano particles that have settled to the bottom. Make certain to re-shake every 15-20 minutes to ensure proper performance. Using a 3/8″ nap roller, flood the surface to be sealed with TruNano™ Multi-Surface

APPLICATION INSTRUCTIONS - Continued

Sealer and begin to work the sealer into the surface with the roller, exerting downward pressure on the roller to force the product into the surface pores. Apply sealer liberally as each surface pore must be completely filled with sealer for optimal performance. Work the sealer liberally in a cross-pattern; up and down, then left and right repeatedly until sealer puddles up and surface will no longer accept more sealer. Remove excess sealer. Approximately 10 to 15 minutes later, while surface is still wet, repeat this process (wet-on-wet application). Depending on the surface, the second coat may not require as much sealer as the first coat. If any unabsorbed sealer is left on the surface, roll it off an edge or wick it up with a cloth.

Spray Application: TruNano™ Multi-Surface Sealer can be applied with an acetone/alcohol proof pump sprayer fitted with a grey or red cone tip. To apply, hold the cone tip square to the surface being sealed at approximately 8″ to 10″ above the surface. In a sweeping motion, spray the surface in a cross-pattern; left to right, then up and down. On more porous surfaces, the first coat of sealer may be completely absorbed, requiring additional coats to properly seal. Remove excess sealer. Approximately 10 to 15 minutes later, while surface is still wet, repeat this process (wet-on-wet application). Depending on the surface, the second coat may not require as much sealer as the first coat. If any unabsorbed sealer is left on the surface use a dry roller and remove excess sealer.

DRY TIME

Drying Time (@ 77 F, 50% RH):

Temperature and humidity dependent.

Touch:	30 minutes
Through:	1 Hour
Full Cure:	7 Days

INTERRUPTION OF WORK

Upon drying, treated surfaces will have a natural appearance closely matching the untreated surfaces. It is possible areas could remain untreated if work is interrupted. It is advisable to stop application on a comer joint or any other obvious marker so the applicator can begin where the application had previously ceased.

CLEAN-UP

Clean tools and equipment with warm, soapy water and rinse thoroughly.

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