

TRÜNANO™ ENHANCER PLUS

Complies with SCAQMD
 VOC: Less than 20 g/L
 LEED 7 Points CARB

DESCRIPTION

TruNano™ Enhancer Plus is a fast-drying, water repellent sealer designed to enhance and protect stone and concrete from nature's destructive forces. TruNano™ Enhancer Plus provides a long lasting barrier which exhibits superior resistance to water, mold, airborne dust and dirt, salt, efflorescence, alkali, freeze/thaw damage and spills. Stain and Seal concrete in one step by adding Creative Colors™ Concrete Dye.

SURFACE

Natural Stone, Concrete and Artificial Stone.

DO NOT USE ON ASPHALT SUBSTRATES OR SURFACES!

SOLUTION

Moisture, Stains, Dirt and Mold + add custom color dyes.

MATERIAL RESISTANCE CHART

CHEMICAL	RESULT
Moisture	No Effect
Stains	No Effect
Mold	No Effect
Oils	No Effect

CHARACTERISTICS

Color: Clear
 Finish: Enhancing
 Vehicle Type: Solvent Base
 Flash Point: (C Penskey-Martens closed cup)
 -20C (-4F) CC
 VOC: less than 20 g/L
 Weight per Gallon: 6.7lbs.
 Breathable
 Not intended to be immersed in water on a continuous basis.

COVERAGE

Substrate	Sq. Ft. / Gal.
Smooth Concrete	300-400
Broom Finish Concrete	500-600
Porous Concrete	150-250
Split Face Block	200-250
Fluted Block	200-250
Concrete Block	200-250
Brick (Clay)	50-300
Stucco	250-300

COVERAGE - Continued

Sandstone, Limestone	250-300
Flagstone, Concrete Pavers	250-300
Unglazed Ceramic/Porcelain	300-400
Travertine, Tumbled Marble	300-400
Artificial Stone	250-300

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™ Enhancer Plus 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 an annual basis to determine environmental wear on the sealed surface.

SURFACE PREPARATION

Prior to the application of TruNano™ Enhancer Plus 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.

NOTE: In all applications do not proceed until it has been confirmed that the surface is clean and dry to at least 15% moisture.

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.

If the surface had 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.

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

SURFACE PREPARATION - Continued

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.

New Concrete Floor or Horizontal Surface

For new concrete floors and horizontal surfaces, the concrete must be cured at least 10 days or longer. The surface must be cleaned and abraded using a floor machine with, between 200 to 400 grit. This process provides for a uniform surface and preps the surface of the concrete to accept the sealer. After the floor has been abraded, a mixture of 50% acetone and 50% water should be used to remove any slurry accumulated in the pores of the surface. The surface then needs to be rinsed with clean, clear water. The surface needs to be dried to 3% moisture or less. If necessary utilize a moisture meter to confirm moisture content before proceeding.

New Concrete Vertical Surface

For new vertical surface concrete, the concrete must be cured at least 10 days or longer. The surface needs to be cleaned with high pressure washing. Hot water pressure washing will provide the best results. A mixture of 50% acetone and 50% water can be used to help clean the surface. Apply the mixture to the surface, let stand then rinse with clean, clear water. The surface needs to be dried to 3% moisture or less. If necessary utilize a moisture meter to confirm moisture content before proceeding.

Existing Concrete Floors or Horizontal Surfaces

For existing concrete floors or horizontal surfaces, the substrate must be tested to determine if a coating or sealer was used previously. It is extremely important that the surface be cleaned and stripped of any previous sealers or coatings! Follow the steps and instructions found in this document under the heading “**Removal of All Existing Coatings or Curing Compounds**” and “**Silicone Sealer Removal**”. Once it is confirmed that all previous coatings and sealers have been removed, the surface needs to be cleaned and abraded using a floor machine with between 200 to 400 grit. If grease or oil remains, use a degreasing product. Be sure to remove any residual degreasing products during the cleaning process. After abrading, clean entire surface with a mixture of 50% acetone and 50% water to remove any remaining slurry.

New Natural Stone or Cultured Stone

For new natural or cultured stone, make certain the surface is clean by either lightly power washing or steam cleaning. If any residual mortar exists, it is recommended that a solution of muriatic acid be applied to remove loose or excess mortar. Make sure to follow the manufacturers instructions for use of the muriatic acid. After using the solution of muriatic acid, lightly power wash or steam clean the surface. Make sure to rinse the surface thoroughly.

Existing Natural Stone or Cultured Stone

For existing natural or cultured stone, it is extremely important that the surface be cleaned and stripped of any previous sealers or coatings! Follow the steps and instructions found in this document under the heading “**Removal of All Existing Coatings or Curing Compounds**” and “**Silicone Sealer Removal**”. Once it is confirmed that all previous coatings and sealers have been removed, the surface needs to be cleaned by either lightly power washing or steam cleaning.

APPLICATION INSTRUCTIONS

Test Area

Due to the wide variety substrates and the various environments, always test Enhancer Plus 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.

NOTE: If using Creative Colors™ Dye, dye must be mixed into Enhancer Plus one (1) hour before application to ensure the powder dye is completely dissolved into the mixture. See application instruction for Optional Stain Application.

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 Procedures

Open container and stir for several minutes to re-suspend the nanoparticles that have settled to the bottom. Hand mixing is all that is required. Power mixing or paddle mixers are not recommended. Make certain to re-stir every 5-20 minutes to ensure proper performance.

CAUTION!: This product contains acetone to accelerate dry time. Be sure to keep lid on container to prevent evaporation and loss of product.

Spray Application: This application method will provide the best aesthetic finished appearance of the product and is the recommended method of application. TruNano™ Enhancer Plus is applied with an acetone/alcohol proof pump sprayer fitted with a grey or red cone tip. To apply, hold the fan 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 and enhance. If surface does not appear enhanced, or have a “wet look” after 5 minutes, additional coats are required until enhancement is achieved. After the first coat is applied, additional coats may be applied without wait time or any additional preparation. Extremely porous surfaces may require 3 to 4 applications. When spraying outdoors, make certain there will be no rain for at least 10 minutes after anticipated completion time. If there is high wind, this will affect the quality of the finish as blowing wind can disrupt the spray pattern from the sprayer and contribute to contamination of the finish. It may be necessary to erect a wind screen to protect the area prior to beginning the coating application.

CAUTION: If using spray application method in an enclosed space, make certain to tent off the area being sprayed with a plastic tarp to avoid spray dust from traveling and contaminating other surfaces with overspray dust. Tented and enclosed areas should always be positively supplied with fresh air and have ventilated exhaust to outside using fans. Never spray near any open source of ignition such as pilot light flames, or anything that may spark, as this may cause ignition and explosion of the fumes and vapors.