

TRÜNANO™ GRAFFITI ARMOR

Complies with SCAQMD
 VOC: Less than 100 g/L
 LEED 7 Points CARB

DESCRIPTION

TruNano™ Graffiti Armor is a clear coating for concrete, metal, wood, painted surfaces and more. TruNano™ Graffiti Armor is designed to protect against damage from graffiti and normal destructive forces, providing a long-lasting barrier between the substrate and damage. TruNano™ Graffiti Armor allows the removal of graffiti without damage to the underlying paint, signage or the substrate. TruNano™ Graffiti Armor is peel and flake resistant and outlasts sacrificial coatings and traditional graffiti protection methods.

SURFACE

Concrete, stucco, brick, iron, steel, stainless steel, aluminum, galvanized steel, wood, painted surfaces, signage including signage with decals and silicone-free plastics.

SOLUTION

Graffiti, Moisture, Stains, and Abrasion

MATERIAL RESISTANCE CHART

CHEMICAL	RESULT
Graffiti	No Effect
Moisture	No Effect
Mold	No Effect
Stickers	No Effect
Acid Rain	No Effect

CHARACTERISTICS

Color: Translucent red or pink
 Finish: Gloss
 Vehicle Type: Solvent Base
 Flash Point: (C Penskey-Martens closed Cup)
 16.7C/62.1F
 VOC: less than 100 g/L
 Weight per Gallon: 7.36 lbs.
 Non-breathable
 Not for use as a hydrostatic barrier

SPREAD RATE

Recommended Spread Rate per coat:
 Wet mils: 0.5-1.0
 Dry mils: 0.2-0.7

CAUTION: Do not exceed recommended mil thickness. Graffiti Armor will yellow over time if applied beyond recommended mil thickness.

COVERAGE

Coverage: 800-1600 Sq. Ft./Gal. (Non-porous surfaces)
 200-400 Sq. Ft./Gal. (Porous surfaces)
 Coverage will vary depending on the porosity and texture of the substrate.

EXPECTED WEAR

3 to 5 years under normal conditions.

SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material.

Removal of all existing silicone sealers

To determine if the surface is previously sealed or coated, sprinkle water onto the 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 sealer that must be removed to allow adhesion of Graffiti Armor to the substrate. It is crucial to ensure adhesion of the coating. Remove all surface contamination by washing with a pH neutral cleaner, rinse thoroughly and allow to dry. 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. Allow the surface to dry thoroughly.

Painted or Coated Surfaces, Plastic and Signs

Clean entire surface with a mild cleaner (do not use solvents as this will ruin most surfaces). Make sure the surface is clean and dry, then apply Graffiti Armor directly over the surface.

Unpainted Masonry and Concrete

For all porous masonry and concrete make sure the surface is clean and dry. Power wash or hot steam clean to remove all trapped surface dirt. Once the surface is completely dry, pre-seal the surface with TruNano™ Enhancer Plus. (See TruNano™ Enhancer Plus Data Sheet for complete application instructions). This will dry in 15 minutes and provide a sealed base on which to apply Graffiti Armor.

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.

APPLICATION INSTRUCTIONS

Graffiti Armor can be applied by either spraying or rolling depending on the configuration of the piece, the location and the desired finish. With either method of application, always mask off any adjacent surfaces to keep them free of drips or accidental coating.

Test Area

Due to the wide variety substrates and the various methods of application and environments, always test Graffiti Armor in an inconspicuous location to ensure adhesion and performance. There will be a slight 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.

Spraying

Open the can of Graffiti Armor. Stir contents thoroughly to resuspend the nano particles that have settled to the bottom. Make certain to re-stir every 15-20 minutes to ensure proper performance. Stir slowly to avoid creating air bubbles, which can affect the performance of the finish. If air bubbles are present, the spray gun will spray the air bubbles through the tip and onto the surface. When surface preparation is complete and surface is dry and free of dust, begin application using a high volume, low pressure (HVLP) spray gun with a 1.0 size tip and the pressure set at approximately 25 psi. On a piece of cardboard, first spray a test pattern to achieve a 6" to 8" elongated pattern approximately 1 ½" wide in the middle. Once this spray pattern is achieved on the test cardboard, spray the surface in a cross-pattern; left to right, then up and down. This will provide sufficient coverage and will help prevent holes in coverage. Desired wet film thickness (WFT) is approximately 0.5 to 1.0 mils.

CAUTION: If using spray application method in an enclosed space, make certain to tent off the area being sprayed with plastic tarps 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.

Rolling

Open the can of Graffiti Armor. Stir contents thoroughly to resuspend the nano particles that have settled to the bottom. Make certain to re-stir every 15-20 minutes to ensure proper performance. Pour the Graffiti Armor into a roller pan and completely saturate the roller with the coating. Using a high density white foam roller or a professional grade 3/8" nap roller available at most major home improvement stores, apply a coat in a cross pattern; left to right, then

APPLICATION INSTRUCTIONS - Continued

up and down as quickly as possible making sure there is always plenty of material on the roller so no spots are missed. Desired wet film thickness (WFT) is approximately 0.5 to 1.0 mils.

Observe the surface right away to make certain there are no lines or roller marks. If lines or marks are present, quickly touch up and avoid any further contact to the surface as the working time is very short and over working the coating will ruin the finish. Over the next 30 minutes the coating will self-level leaving a smooth surface.

DRY TIME

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

Drying time is temperature, humidity and film thickness dependent.

Touch: 30 minutes

Through: 1 hour

Full Cure: 7 Days

INTERRUPTION OF WORK

Upon drying, treated surfaces can appear similar to untreated surfaces. It is possible areas could remain untreated if work is interrupted. It is advisable to stop application on a corner joint or any other obvious marker so the applicator can begin where the application had previously ceased.

CLEAN-UP

Clean tools and flush equipment with acetone thoroughly before product dries.

CAUTION

STOP Always wear OSHA approved 1910.134 and ANSI Z88 2 respiratory protection.

STOP Fresh air and exhaust should be provided in the work area. If inhaled, remove affected person to fresh air. Call physician immediately if physical difficulties occur.

STOP Wear butyl-rubber gloves and other skin protection to avoid contact. In the event of contact with skin, wash skin thoroughly with soap and water.

STOP Chemical safety goggles or splash shields are recommended. Do not wear contacts without eye protection. Immediately flush eyes with water for 15 minutes after contact and get medical attention.

STOP If accidentally swallowed, rinse mouth thoroughly.

STOP In case of discomfort, obtain immediate medical attention.

STOP If coating is to be applied over a surface containing ink, the surface must be horizontal when applying.

STOP Spraying is the only acceptable method of application over a surface with ink.