



INSTRUCTIONS/USE

Description

NanoTech Concrete Coating protects concrete & masonry surfaces from destructive forces including water, chloride ion penetration, food & beverage acids, bird & animal waste, salt spray, gum, and graffiti. NanoTech Concrete Coating is peel and flake resistant and is available in a gloss or satin finish. It can also be applied over NanoTech Coatings Quick Seal & Enhance as a top coat.

Surface

NanoTech Concrete Coating is ideal for concrete walls & structures, floors, masonry pavers, bricks, and cement blocks.

Solution

NanoTech Concrete Coating is the perfect solution for moisture, most stains, mild acids, bird & animal waste, and graffiti.

Characteristics

Appearance:	Clear
Finish:	Gloss or Satin
Vehicle Type:	Solvent Base
Flash Point:	(C Penskey-Martens closed Cup) -9c/15F
VOC:	Less than 100 g/L
Weight per Gallon:	7.36 lb/gallon
Non-Breathable	

Spread Rate

Recommended Spread Rate per coat:
Wet mils: 2.5-3.5

Dry mils: 1.5 - 2.1

Coverage

Coverage: 400-600 sq ft./gal (approximate)
Coverage will vary depending on the porosity and texture of the substrate as well as the applicators method of application.

CONCRETE COATING

Surface Preparation

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, and other foreign material. Any existing floor that has retained oil must be completely free from any further wicking action as this will prevent a bond and the coating will delaminate.

IMPORTANT: REMOVE ANY SILICON. NanoTech Concrete Coating will not adhere to silicones or polymer modified grouts. To determine if the surface was 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 NanoTech Concrete Coating to the substrate.

To remove silicon sealers, use NanoTech Surface Prep. Follow directions on the label or web site. This will clean the surface of any silicone or grease which is required to allow for proper adhesion of the coating. Rinse with hot water then wipe down with acetone. Retest with water to make certain the water is absorbed into the surface to confirm the sealer is gone.

Let dry to a moisture content less than 13% before coating. Pre-sealing is required on Unsealed/Porous Concrete. Apply a sealer such as Nanotech Quick Seal & Enhance (or a good water based, silicone free sealer) to prevent the concrete surface from absorbing too much of the Concrete Coat, thus rendering it ineffective.

New Concrete or Masonry Surfaces

If in sound condition, clean the surface of all foreign material including dirt, dust, grease, oil, loose particles, laitance, coatings, and curing (or release) agents. Smooth surfaces should be abraded to 220 grit by sand (or bead) blasting or grinding with a floor machine. Test the surface for the proper ph balance (between 7 and 9). Thoroughly clean and allow surface to dry, moisture content should not exceed 13%.

Previously Painted Surfaces

If in sound condition, clean the surface of all foreign material and mechanically abrade with 220 grit before applying the NanoTech Concrete Coating. If the paint is peeling or badly weathered, re-application of the existing paint may be necessary. If repaint is required, proceed with that process outlined by the paint manufacture, then apply NanoTech Concrete Coating following the paint manufactures reapplication time table.

Application Instructions

Test Areas

Due to the wide variety of texture and porosity of concrete and masonry surfaces, as well as the various methods of application and environments, test NanoTech Concrete Coating in an inconspicuous location to ensure adhesion, and determine that the desired look is achieved. There will be a slight enhancement or change in appearance from the natural surface along with a shine (either gloss or satin depending which finish is chosen).

Application

NanoTech Concrete Coating can be applied with an acetone/alcohol proof pump sprayer with a grey or red fan tip or rolled on using a high- density, ultra smooth roller. With either method of application, always cover any adjacent surfaces to keep them free of drips or accidental coating. Ensure proper ventilation and make certain there is no possible ignition source such as a pilot light. When applying outdoors, make certain the ambient temperature is between 45° F and 105° F, 90% RH or less and that there is no chance of rain for a minimum of 5 hours after the estimated time of completion of the coating process. Take necessary precautions for natural elements.





INSTRUCTIONS/USE

Pump Sprayer

Shake the contents thoroughly in the container to re-suspend the nanoparticles that have settled to the bottom of the can, (Typically about ¼” of buildup will be present in the bottom of the can). These nanoparticles need to be re-suspended for the coating to perform. Make certain to re-shake every 15-20 minutes to re-suspend the nanoparticles. Use a good quality acetone/alcohol proof pump sprayer equipped with a grey or red fan tip, (do not use standard tip most spray wands come with. Only use red or grey). Hold the tip square to the floor or surface being coated. Hold the tip at a distance of 8” to 10” off the surface and spray the surface in a cross pattern; “left to right”, then “up and down” or a circular motion.

Be careful not to apply the product too thick and be sure it does not puddle. This will cause too much surface tension and possible bubbles or delimitation. Do not apply a second coat unless there is a flaw in your application of the first coat. If a second coat is necessary, wait 24 hours for the surface to dry and then abrade the surface with 220 grit sandpaper on a buffing floor machine to allow the second coat to bond. Clean floor of dust and reapply.

Roller

Shake contents thoroughly in the container to re-suspend the nanoparticles that have settled to the bottom (typically there will be approximately ¼” of build up in the bottom). Make certain to re-shake every 15-20 minutes to re-suspend the nanoparticles, this will ensure proper performance. Using a high-density ultra smooth roller, roll onto surface in a cross-pattern; “left to right”, then “up and down”, always keeping a wet edge. Make certain the roller is completely saturated at all times.

Do not apply a second coat unless there is a flaw in your application of the first coat. If a second coat is necessary wait 24 hours for the surface to dry. Then abrade the surface with 220 grit sandpaper on a buffing floor machine to allow the second coat to bond. (Second coat will not adhere to first coat unless the surface is abraded by sanding) Clean floor of dust and reapply

Dry Time

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

Drying time is Temperature, humidity and film thickness dependent. (The higher the humidity the faster the dry time).

Touch: 1 hour

Through: 2-4 hours

Walk on: 8 to 12 hours

Full Cure: 7 Days

Interruption of Work

It is advisable to stop application on a expansion joint or any other obvious marker so the applicator can begin where the application had previously ceased.

If an area becomes damaged, re-abrade the area using 220 grit sandpaper on a floor machine and re-apply over the area. Prevent any traffic on the area for a minimum of 8 hours. Keep moisture off of repaired area and allow curing for 7 full days.

CONCRETE COATING

Clean Up

Clean tools and flush equipment with acetone thoroughly before product dries. Once product is dry solvents will not clean off the product.

Caution

Always wear OSHA approved 1910.134 and ANSI Z88 2 respiratory protection. Enclosed work areas should always be equipped with excessive ventilation. If inhaled, move to fresh air and call physician immediately if physical difficulties occur. 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. Chemical safety goggles or splash shields are required. Do not wear contacts without eye protection. Immediately flush eyes with water for 15 minutes after contact and get medical attention. If accidentally swallowed, rinse mouth thoroughly and obtain immediate medical attention.

Care & Maintenance

Clean with a mop using NanoTech Coatings Safe Clean then rinse with water. On large commercial type floors, a floor machine can be driven over the surface in wash mode only with the NanoTech Coatings Safe Clean as the cleaning agent.

A NanoTech Coatings Buffing Pad may be used to buff the floor for a shiny finish. Wax coating is no longer necessary. If an area becomes damaged, re-abrade the area using 220 grit sandpaper on a floor machine and re-apply over the area. Prevent any traffic on the area for a minimum of 8 hours. Keep moisture off of repaired area and allow curing for 7 full days.

