

TECHNICAL DATA SHEET, Lightspeed® Nano (New and Improved)

PRODUCT DESCRIPTION

Lightspeed Nano is a high-performance, UV-cured, waterborne urethane designed for wood cabinet and floor applications. This advanced UV technology creates a coating with excellent resistance to abrasions, scratches, and chemicals. Unique nano structures enhance the coating's resistance, while a non-wax matting agent ensures a crystal-clear, non-yellowing finish and reduces "chunking" as the product ages. An improved wetting agent makes the product easier to use. Since Lightspeed Nano cures instantly with UV light, cabinets and floors can be fully cured and ready for use immediately, allowing your customers to quickly return to their daily activities with a durable and beautiful finish.

PRODUCT FEATURES

- UV Cure Technology
- Nano Technology
- Maximum Durability
- Crystal Clear, Non-yellowing

PRODUCT USES

- Engineered for high-wear applications
- Suitable for wood surfaces such as cabinets, floors, and trim
- Recommended for residential, commercial, and retail spaces

TYPICAL PROPERTIES

Property	Value
Finish Type	UV Nano Urethane (Waterborne)
Color	Clear (dry)
Solids Content	Approx: 37%
VOC	<38 g/l
Weight/Gallon	8.66 lbs/gal
Flash Point	>200°F
Odor	Mild, non-offensive, after cure no odor
Clean Up	Water
Coverage Rate	500 sq ft/gal
Application	HVLP, T-Bar, Roller, Stainers Pad, Trim Pad
Shelf Life	1 year
Storage/Transport	50°F - 90°F (10°C - 33°C)
Disposal	Dispose according to local regulations

Property	Value
Drying Time, Until Ready for recoating:	1-2 hours*
	Ready for UV curing: 1-2 hours*
	Fully Cured: Immediately following UV cure

APPLICATION PROCEDURES

T-Bar Application

1. Shake for 30-45 seconds, then let rest for 10-15 minutes prior to application.
2. Pour a 6" wide strip of finish along the starting wall.
3. Application:
 - o Following the grain of the wood, pull a clean, pre-dampened applicator forward.
 - o Move the finish toward the opposite wall while holding the applicator at a 15 degree angle to keep a wet edge.
 - o Maintain at least a 2" wide wet edge at all times to ensure proper coverage rate.
4. Coverage: Use the recommended coverage of 500 square feet per gallon to prevent lapping and dry marks. Do not spread too thin.
5. When cutting in the floor, never work more than five feet ahead of the person applying the finish.
6. For smoothest results, before applying the final coat, buff with a conditioning pad. Always vacuum and tack thoroughly with a slightly water-dampened mop or cloth after abrading.

Roller Application

1. Shake for 30-45 seconds, then let rest for 10-15 minutes prior to application.
2. Use a 3/8 microfiber roller.
3. Go with the grain as you apply the finish

Spray Application

1. Shake for 30-45 seconds, then let rest for 10-15 minutes prior to application.
2. Filter: To ensure no foreign object or dried out flakes are present use at least a 100 micron filter previous to use.
3. Equipment: Use an HVLP sprayer.
4. Application:
 - o 4 - 7 in. Fan width
 - o Mid - High air pressure
 - o Product volume knob 2 - 4 full turns from fully closed
5. Application: Spraying Technique
 - o Maintain a distance of 4 -6 in. From surface.
 - o Maintain a 50/50 overlap to ensure even coverage

6. For smoothest results, before applying the final coat, abrade with a conditioning pad. Expose the Lightspeed Nano to the UV light to achieve full cure, then lightly abrade the surface with 2,000 - 3,000 grit sandpaper.

Recoating

1. Surface Preparation: The wood surface must be free of wax, polish, and oily residue. Use Surface Prep Pro and a combination of Acrylic Remover or Wax remover if needed to ensure proper adhesion.
2. Process Adherence: If the recoating process is not followed and compatibility is not determined, adhesion failure can occur.

Abrasion Between Coats

1. Time Frame: It is unnecessary to abrade between sealer and finish coats unless more than 4 hours have passed since the previous coat was applied.
2. Smoothing: For smoothest results, abrade between each coat as necessary using 240 grit abrasives.

RECOMMENDED SYSTEMS

Sanded wood surfaces

- Apply 1 coat of Wood Sealer, finish with 2 coats of Lightspeed Nano.

Coating Over Stained wood surfaces

- Allow the stain to fully dry, depending on environmental conditions may need extra dry time. Test a small area to ensure compatibility.

Refinishing Previously Coated Wood Surfaces

- Abrade with an appropriate pad. Apply 1-2 coats of wood sealer followed by 2 coats of Lightspeed Nano. Compatibility must be confirmed by an onsite technician.