Nano Shield™
Advanced Clear Floor Finish

NANO SHIELD™ ADVANCED FLOOR FINISH

DESCRIPTION AND USES

Nano Shield Advanced Floor Finish is a self water-based cross linking copolymer resin system, enhanced with nano particles of aluminum oxide, providing durable interior clear finish that is ideal for coating and protecting hardwood floors and other interior wood surfaces. Nano Shield Advanced Floor Finish flows and levels exceptionally well on any wood surface. Nano Shield Advanced Floor Finish dries clear and is non-yellowing – ideal for maintaining the true natural color of wood.

Recommended uses: Residential Wood Floors: kitchens, living rooms, bedrooms, family rooms, and entryways Commercial Wood Floors: retail stores, shopping centers, offices, restaurants, churches, classrooms, hotels, etc.

Note: When immediate heavy use of floor is required, Nano Shield Accelerator is recommended to be used in the final finish coat. Nano Shield Accelerator will speed up the effective cure time to 48 hours. Unused accelerated finish stays active to reuse for up to 36 hours.

FEATURES

- Single Component - No Wasted Product
- Versatile water based product with high end performance
- Aluminum oxide for enhanced scratch resistance
- Good application characteristics
- 275 VOC-compliant nationwide
- Available in gloss, semi-gloss and satin

PRODUCTS

SKU	Description	
137233	1- Gallon	Gloss
137263	1-Gallon	Semi-Gloss
137243	1-Gallon	Satin
270066	1-Gallon	Matte

PRODUCT APPLICATION

SURFACE PREPARATION

For best results, use at temperature between 60°F and 80°F. Allow longer dry times for damp, humid days. Surface must be clean, dry, and free from old finish, wax, grease and dust. Sand area smooth, progressing in sandpaper grit from rough to medium to fine. Final screen floor with 120 or 150 grit screen or maroon pad with 180-220 grit sanding strips. For hardwood floors, use a NOFMA or NWFA accepted methods for sanding details. After sanding and screening, vacuum surface to remove dust.

PRODUCT APPLICATION (cont.)

Staining Surface - Oil or water-base stains can be used prior to finish application. When using Nano Shield Stains, for best results, it is recommended to let dry for a minimum of 2 hours then apply either Pro Universal Sealer or Nano Shield Advanced Sealer, or apply Nano Shield Advanced Floor Finish directly to the Nano Stains after 4 hours. If using a brand other than Nano Stains, follow the manufacturer's recommendation for coating or allow oil base stain to dry a minimum of 24 hours, depending on jobsite conditions, before applying water-base finish. Test a sample area for product compatibility.

Sealing Surface - Use Nano Shield Advanced Floor Sealer to fill and seal wood pores before applying Nano Shield Advanced Floor Finish. Nano Sealer contains Aluminum Oxide which provides additional wear resistance. Nano Shield Advanced Floor Sealer will produce a clear amber patina finish on most woods and must be completely dry, abraded and clean before applying the finish.

Recoating Prefinished Wood - Caution must be taken when screening and recoating prefinished wood. To ensure proper bond of Nano Shield topcoat, please refer to Nano Shield Recoat Guide.

Applying Finish - Rock container and stir thoroughly before use. Stir contents well and frequently during use. Apply Nano Shield Advanced Floor Finish using Parks Universal Applicator or a light weight T-bar. Apply in direction of wood grain in pulling motion with smooth, level strokes. Apply even coats at a rate of approximately 400 square feet per gallon. Allow product to dry 2-3 hours. Thinner coats will speed dry time as well as cure time. Jobsite conditions may extend dry times. After first coat has dried, abrade the surface with Rotary buffer using maroon pad with 180 or 220 sand paper strips. Vacuum and wipe clean with a slightly water dampened lint free cloth then apply second coat. Follow this procedure for any successive coats. Sanding between coats is not required for adhesion as long as the times between coats is less than 12 hours. However, screening or sanding between coats produces a smooth, better-looking job. A minimum of 2 coats is recommended on top of the sealer coat (3 coats when applying gloss sheen). It is not recommended to apply more than 2 coats (including Nano Shield Advanced Floor Sealer) the same day. Allow final coat to dry overnight before permitting light traffic or other use of surface; allow 72 hours before normal wear. Optimal cure is reached in 10 to 14 days. Finish will take up to 21 days to totally cure. For quicker cure on commercial or heavy use jobs, it is recommended to use Nano Shield Accelerator on final coat to provide accelerated cure

PRODUCT APPLICATION (cont.)

NOTE: Do not apply more than 2 coats of Nano Shield (sealer or topcoat) in one day.

Note: Abrading with Maroon pad alone is not sufficient for mechanical bond.

Recommended Systems for Optimal Performance

Full Sand, slight coloration
1 coat Nano Shield Advanced Floor Sealer;
2 coats Nano Shield Advanced Floor Finish (3 coats with gloss)

Full Sand, warm wood color
1 coat Universal Sealer;
2 coats Nano Shield Advanced Floor Finish (3 coats with gloss)

Full Sand, water-based systems
1 coat Nano Stain
1 coat Nano Shield Advanced Sealer or Parks Pro Universal Sealer
2 coats Nano Shield Advanced Floor Finish or Nano Shield Advanced Ambering Floor Finish (3 coats with gloss)

Full Sand, stained
1 coat Nano Stain
3 coats Nano Shield Advanced Floor Finish or Nano Shield Advanced Ambering Floor Finish (4 coats with gloss)

WARNING! SANDING DUST CAN BE A SPONTANEOUS COMBUSTION HAZARD. ALWAYS DISPOSE OF COLLECTED SANDING DUST IMMEDIATELY.

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TECHNICAL DATA

NANO SHIELD™ ADVANCED FLOOR FINISH

PHYSICAL PROPERTIES

Physical Properties		Advanced Floor Finish
Resin Type		Water-based Polyurethane
Pigment Type		Nano-sized Aluminum Oxide
Solvents		Glycol Ethers and Water
Weight	**Per Gallon**	8.7- 8.8 lbs.
	Per Liter	1.04- 1.05 kg
Solids	**By Weight**	30.5-32.0%
	By Volume	20.8-21.4%
Volatile Organic Compounds		<220 g/l (1.83 lbs./gal.)
Recommended Dry Film Thickness (DFT) per Coat		1.0 mil (25µ)
Wet Film to Achieve DFT (unthinned material)		3.0-mils (75-µ)
Theoretical Coverage at 1 mil DFT (25µ)		343 sq.ft./gal. (8.4 m^2/l)
Practical Coverage at Recommended DFT (assumes 15% material loss)		400-500 sq.ft./gal. Varies with type and porosity of wood
Dry Times at 70-80°F (21-27°C) and 50% Relative Humidity	**Touch**	1 hour
	Recoat	3-4 hours
	Light Traffic	24 hours
	Normal Use	72 hours
Shelf Life		3 years (unopened)
Flash Point		178°F (81°C)
Storage		Store at room temperature. KEEP FROM FREEZING.
Safety Information		For additional information, see MSDS

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Form: JPB-10
Rev.: 070814