Nano Shield™

NANO SHIELD™ RAPID CURE

DESCRIPTION AND USES

Nano Shield™ Rapid Cure is a specially formulated catalyzed floor finish system enhanced with nano technology to provide excellent scuff, scratch and chemical resistance. Rapid Cure is suitable for commercial hardwood floors and other interior wood surfaces that require a fast return to service. Rapid Cure is ready for light traffic in 24 hours and is fully cured for normal use in 48 hours.

PRODUCTS

SKU	Description
270069	1-Gallon Rapid Cure
270072	1-Gallon Semi-Gloss Rapid Cure
270073	1-Gallon Satin Rapid Cure
137195	8-Ounces (sold separately)

PRODUCT APPLICATION

SURFACE PREPARATION

Surface must be clean, dry, and free from old finish, wax, grease and dust. For best results, follow NWFA (National Wood Flooring Association) accepted sanding procedure. Remove all sanding dust with a vacuum and wipe clean with a lint-free cloth. **WARNING! SANDING DUST CAN BE A SPONTANEOUS COMBUSTION HAZARD. ALWAYS DISPOSE OF COLLECTED SANDING DUST IMMEDIATELY.** If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

STAINING SURFACE

For rich color and clarity, use Nano Shield Fast Dry Floor Stains. Allow stain to dry a minimum of 2 hours. Darker colors may require longer dry times. Dry times will vary due to temperature and humidity. When using alternate oil based stain products, follow the manufacturer's dry time before applying Nano Shield Rapid Cure. Always prepare a test sample to determine stain and finish compatibility and adhesion.

PRODUCT APPLICATION (cont.)

RAPID CURE SYSTEM

Unfinished wood must be sealed with Nano Shield Fast Dry Stain, Nano Shield Sealer, or Universal Sealer. Once the surface has been sealed, apply two coats of Nano Shield Rapid Cure Finish (Satin or Semi-Gloss) or three coats of Rapid Cure Gloss. Do not apply more than two coats of finish per day.

MIXING

Thoroughly mix contents to ensure that any settled pigment is re-dispersed. Add one 8 ounce bottle of 137195 Nano Shield Pre Fin per one gallon of Rapid Cure. Thoroughly mix for 1 minute, careful to avoid foaming. DO NOT SHAKE. Allow activated finish to sit for 5 minutes before applying.

POT LIFE

THE RAPID CURE FINISH/PRE FIN MIXTURE MUST BE USED WITHIN 3 HOURS AFTER ACTIVATION. The finish and hardener can be activated only one time.

APPLICATION

Use when temperatures are between 60-80°F (16-27°C) and the relative humidity is less than 85%. Apply activated Nano shield Rapid Cure using a paint pad or light weight T-bar. Apply in the direction of the wood grain, pulling toward you in smooth, level strokes. Apply even coats at a rate of approximately 400 square feet per gallon. Maintain a wet edge at all times. Allow the product to dry 1-2 hours. Longer dry times may be required for high humidity or low temperature. Thinner coats will speed dry and cure times.

RECOATING

After the first coat has dried, abrade the surface with a rotary buffer using a maroon pad with 180 or 220 grit sandpaper strips. Vacuum and wipe clean with a lint-free cloth lightly dampened with water. Allow to dry thoroughly. Follow this procedure for successive coats. For best results, abrade the surface between all coats. A minimum of 2 coats is recommended on top of the sealer coat (3 coats when applying gloss sheen). Do not apply more than 2 coats in the same day.

PRODUCT APPLICATION (cont.)

DRY TIME

The surface will remain susceptible to scuffing or marring until the finish is fully cured. After 24 hours furniture may be placed on the floor. Do not drag or slide furniture. The finish is fully cured in 48 hours. Rugs may be placed when the finish is fully cured.

CLEAN UP

Clean up using soap and water.

Nano Shield™

TECHNICAL DATA

NANO SHIELD™ RAPID CURE

PHYSICAL PROPERTIES

Physical Properties		RAPID CURE
Resin Type		Polyurethane
Pigment Type		Nano-sized Aluminum Oxide
Solvents		Glycol Ethers and Water
Weight	Per Gallon	8.5-8.7 lbs
	Per Liter	1.02-1.04 kg
Solids	By Weight	27.0-29.0%
	By Volume	28.0-30.0%
Volatile Organic Compounds		125 g/l (1.83 lbs./gal.)
Recommended Dry Film Thickness (DFT) per Coat		1.0 mil (25µ)
Wet Film to Achieve DFT (unthinned material)		3.0-3.5 mils (75-87.5µ)
Theoretical Coverage at 1 mil DFT (25µ)		450-480 sq.ft./gal. (11.0-11.8 m^2/l)
Practical Coverage at Recommended DFT (assumes 15% material loss)		400-500 sq.ft./gal. Varies with type and porosity of wood
Mix Ratio		8 oz. Pre Fin to 120 oz. Rapid Cure
Induction Period		5 minutes
Pot Life		3 hours
Dry Times at 70°F (21°C) and 50% Relative Humidity	Touch	1 hour
	Recoat	3-4 hours
	Light Traffic	24 hours
	Full Cure	48 hours
Shelf Life		3 years (unopened)
Flash Point		>200°F (93°C)
Storage		Store at room temperature. KEEP FROM FREEZING.
Safety Information		For additional information, see MSDS

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