

DURACURE 44 HV MCU

WOOD FLOOR FINISH

Technical Data Sheet

DESCRIPTION:

An oil-free, clear moisture cured urethane coating for wood floors. Duracure 44 HV MCU will maintain glossy finish and extend the useful life of the floor wearing up to 5 times longer than ordinary sealers.

ADVANTAGES:

- Wears up to 5 times longer than ordinary coatings and sealers
- Provides the ultimate in durability
- Creates a durable film that guards against light chemical spills
- Resists oil and grease
- Exhibits light reflectivity properties
- Maintains a glossy finish and extends useful life of floors

PACKAGING:

Available in 5-gallon containers

COVERAGE:

Initial Coat	250-300 SF/gal
Second Coat	300-350 SF/gal

GENERAL DATA:

Color:	Clear
Viscosity:	D-F (Gardener-Holdt)
Non-Volatile:	44.6% +/- 1.0%
VOC:	<533 g/L
Flash Point, T.T.C.:	81°F
Recommended Film Thickness at 325-400 sq. ft. per gallon:	5 mils/coat
Suggested Number of Coats:	One coat over sealed surface
Application Method:	Lamb's wool applicator or high quality 3/8" nap solvent resistant roller
Thinner:	If necessary use UR-9 MCU Thinner
Dry Time @ 75°F:	Tack free: 4 hrs.; Hard dry: 8-10 hrs.
Recoat Time @ 75°F:	From 6-10 hrs. After 16 hrs, screen before recoating
Shelf-Life:	One year

TYPICAL PHYSICAL PROPERTIES:

<u>Test</u>	<u>Description</u>	<u>Results</u>
Abrasion Resistance	Taber Abraser: CS-17 wheel, 1000 cycles, 1000 gm load.	22 mg loss
Adhesion	To concrete: Existing MCU coatings with proper preparation	Excellent
Flexibility	Bent on 1/8" conical mandrel	No cracking or creasing

Above typical values based on cure @ 75°F

LIMITATIONS:

This product is not designed for exterior use, immersion, or any use where moisture can reach the underside of the coating.

In order for this product to cure per specifications, adequate air ventilation must be provided during and after the application process.

Do not apply at a mil thickness greater than recommended. Too thick of an application may result in solvent entrapment and improper curing.

Do not apply in damp or wet weather or in air temperatures below 55°F or over 85°F and/or extremely high humidity conditions.

Before applying for protection against specific chemical environments, consult Chemical Resistance Guide or Valspar-Federal Technical Service (1-800-637-7793). If the product is to be applied in or near areas containing foodstuffs, they should be removed before the application and until the coating has fully cured and all vapors have dissipated.

Vapors from this product can be objectionable to people unaccustomed to the odor. Do not apply in or around buildings occupied by nonconstruction personnel without consulting building management. Solvent odors may be absorbed into porous items such as drapes, clothing, paper products, etc. Such items should be removed before coating. If odors are absorbed, however, simply expose the affected items to fresh air.

As with all high performance coatings, the cured product may become slippery when wet or exposed to oily conditions.

If there is any question as to whether or not the product will adhere to an existing coating, a test patch application should be applied and evaluated for compatibility and adhesion.

Panelizing (Side-Bonding) can occur on floors to which moisture cured urethanes have been applied. Refer to N.O.F.M.A. technical bulletin on panelizing of floors.

This product should not be sprayed.

SURFACE PREPARATION:

NEW FLOORS:

NOTE: Allow a newly installed wood floor to dry for at least six weeks prior to coating.

1. Screen the floor with a #100 grit screen in order to smooth the surface and eliminate any raised grain that is present.
2. Vacuum and then tack rag to remove all dust from screening. WP-15 Waterless Cleaner should be used as a tacking liquid. This tacking process should be repeated until there is no dust present on the tack rag.

3. Before coating, the surface is allowed to dry thoroughly. For further information on screening, consult MFMA or NOFMA for acceptable methods.

PREVIOUSLY COATED FLOORS:

(Do not apply over surfaces treated with floor finish, shellac, lacquer, waterbased or oil based finishes.)

Clean the floor first using a waterless cleaner to remove dirt, dust mop treatments, etc. Allow floor to dry thoroughly. After the test patch has determined that the finish to be applied is compatible with the existing finish on the floor, prepare the floor, and then proceed with the following steps:

Screen the floor with a #100 grit screen (250 sq. ft. per side) until all gloss is removed.

Vacuum, and then tack rag to remove all dust from screening. WP-15 Waterless Cleaner should be used as a tacking liquid. The tacking process should be repeated until there is no dust present on the tack rag. After this tacking process is completed, the floor should appear dull with no areas of gloss present. The floor is now ready to be coated.

1. Apply the finish, with the grain, as evenly as possible with a lamb's wool applicator at the recommended coverage, being careful not to "puddle" the material. Allow to dry approximately 6-8 hours.
2. For best results, apply a second coat of finish in the same manner as in step #1. Allow to dry 24 hours for light foot traffic.

APPLICATION:

CAUTION: MOISTURE CURE URETHANES ARE NOT TO BE USED WITH STAINS. THIS PRODUCT IS DESIGNED TO BE USED AS IS THEREFORE THINNING OR REDUCING WITH SOLVENTS IS NOT RECOMMENDED

NEW FLOORS:

For best results, a four-coat system is recommended for newly sanded bare wood floors. If a three-coat system is desired, apply one coat of sealer and two coats of finish.

FOUR COAT SYSTEM:

1. Apply the sealer with a lambs wool applicator, across the grain, then pull out with the grain. If no sealer available, finish can be diluted 20% with Xylene.
2. Allow drying for at least 6-8 hours with adequate ventilation.
3. If grain raising occurs, screen floor with a #100 grit screen, then tack.
4. Apply the first coat of finish with the grain. Allow drying for approximately 6-8 hours.
5. Apply the second coat of finish. Allow drying 6-8 hours. Apply third coat if necessary.

NOTE: Application of moisture-cured urethanes on newly installed floors can cause panelizing (Side-Bonding). Refer to LIMITATIONS section for details.

CRITICAL RECOAT TIME:

If the coating is allowed to cure longer than 16 hours, screening is required before recoating. The floor surface should be screened to the effect that a uniform dullness is achieved. There should be no gloss present on the floor before applying the next coat.

TROUBLE SHOOTING:

PROBLEM OBSERVED	POSSIBLE CAUSES
Orange peel; Wrinkling	Product applied too heavily; Product applied over an incompatible existing coating; Recoating too soon.
Slow Cure	Low floor and ambient temperature; Inadequate ventilation during application and cure; Product applied too thick.
Poor Gloss; Dull Finish	Solvent entrapment due to inadequate ventilation during application and cure.
Roller Marks in Finish;	High floor and ambient temperatures;
Bubbles in Finish; Product Curing Fast	Humidity during application; catalyst added to product; Product applied too thin.
Fisheyes; Crawling	Improper substrate cleaning; Surface contamination of oil, grease, silicone, or mold release agents, etc.
Peeling between Coats	Past the critical recoat time; Contamination between coats; Recoating too late.

PRECAUTION STATEMENTS:

CONTAINS: ORGANIC SOLVENT

WARNING: flammable liquid and vapor. Causes nose and throat irritation, eye irritation and skin irritation, harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea.

Keep away from heat and flame. Use with adequate ventilation. Do not breathe dust, vapor or spray mist. Wear an appropriate, properly fitted respirator (NIOSH/MSHA Approved) during and after application unless air monitoring demonstrates vapor/mist levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling.

FIRST AID: In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention. For skin, wash thoroughly with soap and water. If affected by inhalation of vapor or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

REFER TO MATERIAL SAFETY DATA SHEET FOR FURTHER SAFETY AND HANDLING INFORMATION.

See individual labels for more caution statements.

KEEP OUT OF THE REACH OF CHILDREN.

For emergency medical information call:
1-888-345-5732

DISPOSAL:

Dispose in accordance with federal, state, and local regulations. Use licensed hazardous waste company.

Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned.

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