



BENJAMIN MOORE®
HARDWOOD Finish 321/C321

Features

- Provides protection and color without obscuring the grain or texture of the wood
- Specially formulated to resist mildew growth on the stain film
- Protection from water and sun damage

General Description

A premium quality coating specifically designed to enrich the beauty of woods like mahogany, teak and ipe. This durable finish enhances the look of hardwoods, while offering great protection from water and sun damage. With a deeply penetrating alkyd formula, this mildew-resistant coating will stave off the aging of wood. May also be used on traditional woods like pine, cedar and redwood.

Recommended For:

Residential or commercial applications where a premium quality finish is desired.
 For application on exterior hardwoods.

Limitations:

- Do not apply when air and surface temperatures are below 50° F (10° C).
- Not recommended for use on previously painted surfaces or substrates coated with solid color stains unless previous coating has been completely removed.

Product Information

Colors: —Standard:
 Natural (10), Teak (30), Mahogany (60)
 Do not tint the colors — tinting will increase dry time and reduce transparency.

—Tint Bases:
 Not available

—Special Colors:
 Contact your Benjamin Moore & Co. representative

Certification:
 Master Painters Institute MPI #13
 Formulated without lead, mercury, or chromates

Federal Specifications Generic Equivalent
 Meets Federal Specification TT-S-708A as a water repellent wood preservative.

Technical Assistance
 Available through your local authorized independent BENJAMIN MOORE® retailer. For the location of the retailer nearest you, call 1-800-826-2623, see www.benjaminmoore.com, or consult your local Yellow Pages.

Technical Data		Natural
Vehicle Type		Linseed Oil - Alkyd
Pigment Type [◇]		Trans-Oxide
Volume Solids [◇]	321 42%	C321 59%
Theoretical Coverage At		300 – 400 Sq. Ft.
Recommended Film Thickness		
<i>Depending on surface texture and porosity. Be sure to estimate the right amount of stain for the job. This will ensure color uniformity and minimize the disposal of excess stain.</i>		
Film Thickness – Wet		Penetrating
– Dry		Minimal
<i>Varies with porosity and texture of substrate.</i>		
Dry Time @ 77° F (25° C) @ 50% RH	— Set To Touch	6 Hours
	— To Recoat	16 Hours
	— To Hard Dry	24 to 48 Hours
<i>Under good drying conditions, a single coat will dry overnight. High humidity may prolong drying times. If a second coat is desired, apply wet on wet — See Application.</i>		
Dries By		Evaporation, Oxidation
Viscosity [◇]		< 50 KU
Flash Point (Seta)	Combustible @ 103° F	C321 Combustible @ 103° F
60° Specular Gloss		Flat
Surface Temperature at application – Min.		50° F
– Max.		90° F
Thin With*		Do Not Thin
Clean Up Thinner		Mineral Spirits
Weight Per Gallon [◇]	321 7.43 lbs.	C321 8.62 lbs
Storage Temperature	– Min.	40° F
	– Max.	90° F
Volatile Organic Compounds (VOC) 321 Unthinned, not to exceed 550 Grams/Liter.**	Volatile Organic Compounds (VOC) C321 Unthinned, not to exceed 250 Grams/Liter.**	

*Thinning of this product may make it non-compliant under normal environmental and application conditions in VOC regulated areas. Local authorities should be consulted for updated regulations.
 ** Contact Benjamin Moore & Co. for actual levels, which may or may not be substantially less than stated. The specifier should be aware that a number of jurisdictions in the USA now regulate the VOC content of coatings.
[◇] Values given are for color shown; other colors may vary.

TDS321/C321B

Hardwood Finish (321/C321)

Surface Preparation

All surfaces must be clean and free of dirt and mildew. Wood must be thoroughly dry to permit maximum absorption of the stain. If mildew is present, it must be removed by scrubbing with BENJAMIN MOORE® RESTORE for Gray & Weathered Wood (316), or it will continue to grow through the fresh coating. Note: Follow manufacturer's directions. Use rubber gloves, work goggles and protective clothing. If mildew is widespread, the use of power wash equipment is suggested. Particular attention should be paid to overhead surfaces such as eaves and porch ceilings. Follow directions supplied by power wash equipment manufacturer for proper and safe use.

Rough and textured surfaces should be cleaned with a stiff bristle brush to remove dead or loose wood fibers. Smooth planed clapboards or siding must be sanded thoroughly or treated with BENJAMIN MOORE® BRIGHTEN Brightener & Neutralizer (317) to break the "mill glaze" to allow proper penetration and adhesion.

WARNING! 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. Carefully clean up 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.

Application

Do not mechanically agitate. Hand stir thoroughly before and during use. Brushing is the preferred method of application. Apply one coat. For premium performance, use a BENJAMIN MOORE® custom-blended nylon/polyester brush, BENJAMIN MOORE® roller, or a similar product. This product can also be sprayed. When applied by roller, spray, or dipping, back-brushing is recommended to ensure uniform distribution.

Start by coating a sample of the exact wood you intend to finish. The actual color or effect of the stain can vary depending on the type of wood — its natural color, texture, grain porosity, and section of log from which it was cut. The number of coats of stain will also affect stain opacity, color, and dry time.

Apply a thin, even coat, allowing the stain to penetrate into the wood. Brush from dry into wet areas, stopping at natural breaks, i.e. stairs or edges. One coat provides sufficient protection on smooth horizontal wood surfaces such as decking.

Do not over-apply; wipe off excess amounts of stain to avoid unwanted gloss or sheen variations and longer drying times, especially woods rich in natural oils, such as teak and ipe. Do not apply in direct sunlight as this will prevent the product from penetrating properly, causing lap marks.

To minimize lapping, always maintain a wet edge. On horizontal siding apply the stain on a section of 2 or 3 boards completely across the house. Lower the ladder and continue in the same manner until the side is completed. Vertical siding is coated using the same principle from top to bottom. Never stop staining in mid-wall; continue until a natural break is reached, such as a window. Refrain from staining in direct hot sun.

Apply when air and surface temperatures are between 50° F (10° C) and 90° F (32° C).

Spray, Conventional: See **Thinning/Cleanup**.

Spray, Airless: Fluid Pressure — 1,500 to 2,000 PSI;
Tip — .012–.014 Orifice; Filter — 100 mesh

Thinning/Cleanup

Do not thin. Clean up with mineral spirits.

Storage: Store in original container. Close container after each use.

Disposal: Do not reuse empty container. Rinse container thoroughly, securely wrap in several layers of newspaper, and discard in trash.

USE COMPLETELY OR DISPOSE OF PROPERLY. This product contains organic solvents which may cause adverse effects to the environment if handled improperly. Disposal of wastes containing either organic solvents or free-liquids in landfills is prohibited. Dry, empty containers may be recycled in a can recycling program. **Local disposal requirements vary; consult your sanitation department or state-designated environmental agency for local disposal options.**

DANGER – RAGS, STEEL WOOL OR WASTE SOAKED WITH THIS PRODUCT MAY SPONTANEOUSLY CATCH FIRE IF IMPROPERLY DISCARDED. IMMEDIATELY AFTER USE, PLACE RAGS, STEEL WOOL OR WASTE IN A SEALED WATER-FILLED METAL CONTAINER.

Environmental, Health & Safety Information

Contains: Petroleum Distillates

HARMFUL OR FATAL IF SWALLOWED. ASPIRATION HAZARD.
CAUSES IRRITATION TO EYES, SKIN AND RESPIRATORY TRACT

NOTICE: Repeated or prolonged exposure to organic solvents may lead to permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal.

Keep away from heat and flame. Product can accumulate static charges which can produce an incendiary electrical discharge. Empty containers retain product residue which can ignite. **Use only with adequate ventilation.** Do not breathe vapors, spray mist or sanding dust. Avoid contact with eyes and prolonged or repeated contact with skin. Wear eye protection and gloves. To avoid breathing vapors or spray mist open windows and doors or use other means to ensure fresh air entry during application and drying. Aspiration Hazard. Small amounts aspirated into the respiratory system may cause mild to severe pulmonary injury. If you experience eye watering, headaches or dizziness increase fresh air or wear a properly fitted vapor/particulate NIOSH approved respirator during application, sanding and clean up. Follow respirator manufacturer's directions for respirator use. Close container after each use.

FIRST AID: If affected by inhalation of vapors or spray mist, remove to fresh air. In case of eye contact, flush immediately with plenty of water for 15 minutes and call physician; for skin, wash with soap and water. In case of ingestion - DO NOT INDUCE VOMITING. Call physician immediately.

IN CASE OF: **FIRE** – Use foam, CO₂, dry chemical, or water fog.
SPILL – Absorb with inert material and dispose of as specified under "Clean Up".

KEEP OUT OF REACH OF CHILDREN

Refer to Material Safety Data Sheet for additional health and safety information.



Printed on
Recycled Paper