



BENJAMIN MOORE®

EXTERIOR DECK & SIDING STAIN

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 paint film
- Protection from water and sun damage

General Properties

A premium quality coating specifically designed to enrich the beauty of woods like mahogany, teak, and pine. 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

C321 - Available in all regulated areas, except South Coast
0321 - Available in federally regulated areas only.

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◇

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Vehicle Type		Linseed Oil - Alkyd
Pigment Type		Trans-Oxide
Volume Solids	321 35%	C321 59%

Theoretical Coverage 200 - 350 Sq. Ft.

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.

Film Thickness	— Wet	Penetrating
	— Dry	Minimal
Varies with porosity and texture of substrate.		

Dry Time @ 77° F — Set To Touch 6 Hours
(25° C) @ 50% RH — To Hard Dry 24 - 48 Hours

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.

Dries By Evaporation, Oxidation

Viscosity < 50 KU

Flash Point Combustible @ 103 ° F

Gloss/Sheen 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 - 7.29 lbs. C321 - 8.62 lbs.

Storage Temperature — Min. 40° F
— Max. 90° F

Volatile Organic Compounds (VOC) ◇

323 - 509 grams / Liter 4.25 LBS / Gallon

C323 - 244 grams / Liter 2.03 LBS / Gallon

◇ Reported values are for color shown. Contact Benjamin Moore & Co. for values of other bases or colors.

Hardwood Finish Deck & Siding Stain (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. 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. Note: 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

Mixing of Stain: Stain pigments do not remain in suspension as in most other types of coatings. It is important that immediately prior to use, the stain be thoroughly mixed even though it has been given a mechanical shaking by the retailer. During use, stir periodically to retain uniformity of color. Prior to staining, ensure having enough stain boxed or mixed to complete an entire section.

Preferred method on siding and deck surfaces is by brushing. For premium performance, use a BENJAMIN MOORE® custom blended china bristle or nylon/polyester brush, BENJAMIN MOORE® roller, or a similar product. This product can also be sprayed. Roller application should be done only on rough or textured surfaces. Back-brushing is recommended with roller or spray application.

On smooth siding and deck surfaces, only 1 coat is recommended. On rough siding apply 1 or 2 coats as needed. If a second coat is required apply it wet on wet within 10 minutes of the application of the first coat. Do not over apply, excessive or uneven application will prolong the dry time and may result in sheen irregularity. A second coat will result in greater color intensity or opacity of the finish. 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. On decks apply stain only a few boards at a time keeping the leading edge "wet."

Refrain from staining in direct hot sun. Do not apply when air and surface temperatures are below 50° F (10° C), nor over damp surfaces or during threatening weather.

Spray, Airless: Fluid Pressure — 1,000 to 2,000 PSI;
Tip — .011-.015 Orifice

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. Save unused product for touch-up purposes or household hazardous waste collection program. 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 information on 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
PROTECT FROM FREEZING**

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

