



ARBORCOAT[®]

WATERBORNE EXTERIOR STAIN

SEMI TRANSPARENT N638

Features

- Provides protection and color without obscuring the grain or texture of the wood
- Formulated for outstanding color retention over time
- Excellent UV protection and great durability
- A scuff and mildew resistant coating
- Ideal for pressure treated lumber and softwoods like cedar and pine.
- May be applied to new wood, weathered wood or to previously stained wood with transparent stain

Recommended For

Residential or commercial applications where a premium quality finish is desired. For exterior use on wood decking, fencing, siding, shakes, and furniture.

General Description

A premium quality waterborne alkyd/ acrylic semi transparent stain formulated to penetrate, protect, and beautify wood siding, decks, fences or furniture. Its semi transparent color allows the grain pattern and texture of the wood to show through. Generally, one coat of stain is sufficient on properly prepared substrates. A second coat of stain may be necessary on some surfaces to achieve desired color and/or uniformity. It may be applied to new, weathered or to previously stained wood.

Limitations

- Do not apply when air and surface temperatures are below 40° F (4.4° C).
- New pressure treated lumber must be allowed to dry out or have a moisture content below 15%.
- Not recommended for hardwood
- Do not apply less than 200 Sq. Ft. per Gallon

Product Information

Colors — Standard:	Technical Data [◇]	Tint Base				
None	Vehicle Type	Alkyd / Acrylic / Urethane Blend				
— Gennex[®] Tint Bases:	Pigment Type	Ultraviolet Inhibitors				
Clear Tint Base (06), Yellow Tint Base (12), Red Tint Base (20)	Volume Solids	26%				
— Special Colors:	Coverage per Gallon at Recommended Film Thickness	200 – 400 Sq. Ft.				
Contact your Benjamin Moore representative	Recommended Film Thickness	<table border="1"> <tr> <td>– Wet</td> <td>Penetrating Minimal</td> </tr> <tr> <td>– Dry</td> <td>Penetrating Minimal</td> </tr> </table>	– Wet	Penetrating Minimal	– Dry	Penetrating Minimal
– Wet	Penetrating Minimal					
– Dry	Penetrating Minimal					
Certifications & Qualifications:	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 material.					
VOC compliant in all regulated areas	Dry Time @ 77 °F (25°C) @ 50% RH	<table border="1"> <tr> <td>– To Touch</td> <td>1/2 Hour</td> </tr> <tr> <td>– To Recoat</td> <td>4 Hours</td> </tr> </table>	– To Touch	1/2 Hour	– To Recoat	4 Hours
– To Touch	1/2 Hour					
– To Recoat	4 Hours					
Master Painters Institute MPI #156	High humidity and cool temperatures will result in longer dry, recoat and service times. Allow 24 hours dry time before subjecting decks to normal foot traffic.					
Technical Assistance	Dries By	Evaporation, Coalescence				
Available through your local authorized independent Benjamin Moore retailer. For the location of the retailer nearest you, call 1-866-708-9180 or visit www.benjaminmoore.com	Viscosity	62 ± 2 KU				
	Flash Point	None				
	Gloss / Sheen	Flat				
	Surface Temperature at Application	<table border="1"> <tr> <td>– Min.</td> <td>40 °F</td> </tr> <tr> <td>– Max</td> <td>90 °F</td> </tr> </table>	– Min.	40 °F	– Max	90 °F
– Min.	40 °F					
– Max	90 °F					
	Thin With	See Chart				
	Clean Up Thinner	Clean Water				
	Weight Per Gallon	8.5 lbs				
	Storage Temperature	<table border="1"> <tr> <td>– Min.</td> <td>40 °F</td> </tr> <tr> <td>– Max</td> <td>90 °F</td> </tr> </table>	– Min.	40 °F	– Max	90 °F
– Min.	40 °F					
– Max	90 °F					
	Volatile Organic Compounds (VOC)					
	18.3 Grams/Liter	.15 lbs./Gallon				

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

Surface Preparation

Optimal performance is achieved when the product is applied to a clean, dry and absorbent wood substrate. This product must be able to penetrate.

New Wood: Smooth planed wood siding, trim, or deck boards must be sanded thoroughly or treated with Benjamin Moore® Brighten, Brightener & Neutralizer (317) to break the “mill glaze” and allow proper penetration and adhesion. After prep is complete, test for penetration by applying a few drops of water to the dry substrate. If the water does not quickly penetrate, repeat prep or consult your Benjamin Moore® retailer.

Weathered Wood: Prior to staining, weathered wood must be treated with Benjamin Moore® Restore, for Gray & Weathered Wood (N316), following label directions, until a sound surface is obtained (loose or damaged wood fibers removed).

Previously Stained Surfaces: This product can also be applied to surfaces previously stained with a transparent stain that is weathered but is not flaking or peeling. Remove contaminants or chalky residue from weathered stained surfaces by washing with Benjamin Moore® Clean, Multi-Purpose Cleaner (N318) and allow to dry thoroughly.

If the existing stain is flaking or peeling it should be removed prior to staining. Existing paint, stain or sealer can be removed by sanding with an On Floor machine or using Benjamin Moore® Remove, Finish Remover (315).

Un-weathered areas such as eaves, ceilings, overhangs or protected wall areas must be washed with Benjamin Moore® Clean, (N318) and rinsed with a strong stream from a garden hose to remove surface salts that can interfere with proper adhesion.

Mildew: Stains from mildew must be removed by cleaning with Benjamin Moore® Clean (N318) prior to coating the surface.

Caution: Refer to the 315, N316, 317 and N318 technical data and material safety data sheets for instructions on their proper use and handling.

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

Prior to finishing, ensure having enough stain to complete an entire section.

Stir thoroughly before and occasionally during use. Stain can be applied by brush, roller, pad applicator or by spray. If the product is applied using a roller or sprayer, it is recommended to back-brush the stain into the wood with the direction of the natural grain. Apply as received in the container.

Apply 1 or 2 coats Arborcoat® Waterborne Exterior Stain. A second coat provides optimal performance and uniformity. Wait for the first coat to dry for a minimum of 4 hours before applying the second coat. Please note that multiple coats will affect the opacity of the final finish and obscure more of the natural color of the wood. Multiple coats may also result with the finish having a slight sheen. This sheen will slowly decrease with normal weathering.

In can color may differ from the final dried finish.

Apply evenly, allowing the stain to penetrate into the wood. Brush from dry into wet areas, stopping at natural breaks, i.e. stairs or edges. To minimize lapping, always maintain a wet edge. On siding or decking, apply the stain on a section of 2 or 3 boards completely across the length of the boards. Continue by coating the next section of boards in the same manner until the area is completed. Vertical siding is coated using the same principle from top to bottom. **Never stop staining in the middle of the board; continue until a natural break is reached.**

Do not apply excess amounts as this will prevent optimum cure. Do not apply in direct sunlight as this will prevent the product from penetrating properly, causing lap marks.

Apply when air and surface temperatures are between 40 °F (4.4 °C) and 90 °F (32 °C).

Arborcoat® Waterborne Semi Transparent Stain (N638) can be touched up with the stain and coated with the Protective Clear coat as an annual refresher. Prior to finishing, ensure having enough clear boxed or mixed to complete an entire section.

Thinning/Clean Up

Conditioning with Benjamin Moore® 518 Extender may be necessary under certain conditions to adjust open time or spray characteristics. The chart below is for general guidance		
	Mild conditions	Severe conditions
	Humid (RH>50%) with no direct sunlight & with little to no wind	Dry (RH<50%), in direct sunlight, or windy conditions
Brush: Nylon/Polyester	No Thinning Necessary	Add 518 Extender or water:
Roller: Premium Quality Nylon/Polyester		Max of 8 fl. oz. to a gallon of stain
Spray: Airless Pressure: 800 – 1,500 psi Tip: 0.011 - 0.015"		Never add other stains, paints or solvents.

Use soap and water.

USE COMPLETELY OR DISPOSE OF PROPERLY. Dry empty containers may be recycled in a can recycling program. **Local disposal requirements vary; consult your sanitation department or state-designated environmental agency on disposal options.**

Environmental Health & Safety Information

Use only with adequate ventilation. Do not breathe spray mist or sanding dust. Ensure fresh air entry during application and drying. Avoid contact with eyes and prolonged or repeated contact with skin. May cause allergic skin reaction. Avoid exposure to dust and spray mist by wearing a NIOSH approved respirator during application, sanding and clean up. Follow respirator manufacturer’s directions for respirator use. Close container after each use. Wash thoroughly after handling.



WARNING Cancer and Reproductive Harm—
www.P65warnings.ca.gov

FIRST AID: In case of eye contact, flush immediately with plenty of water for at least 15 minutes; for skin, wash thoroughly with soap and water. If symptoms persist, seek medical attention. If you experience difficulty breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

IN CASE OF SPILL – Absorb with inert material and dispose of as specified under “Clean Up”.

**KEEP OUT OF REACH OF CHILDREN
PROTECT FROM FREEZING**

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