



ARBORCOAT[®]

WATERBORNE EXTERIOR STAIN

SEMI-SOLID 639

Features

- Provides protection and color without obscuring the grain or texture of the wood
- The semi-solid opacity of this product makes it ideal for reducing color variations in wood without completely obscuring the wood grain
- Scuff resistant
- May be applied to new, pressure treated lumber. Ideal for softwoods like cedar and pine.
- Formulated to penetrate, protect, and beautify wooden decking and furniture
- Provides mildew resistant coating
- A water repellent coating

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 100% acrylic semi-solid stain formulated to penetrate and protect wood, resist abrasion, and beautify wood decking, siding, fencing, shakes and furniture. Its colors are semi-solid, allowing some of the color and the grain pattern of the wood to show through. Arborcoat[®] Semi-Solid stain can be top coated with Arborcoat[®] Waterborne Protective Clear Coat (636) for a low lustre look.

Limitations

- Do not apply when air and surface temperatures are below 40°F (4.4°C).
- Not recommended for use on previously painted or stained wood unless previous coating has been completely removed.
- Moisture content of substrate must be below 15%. Test light colors over a small area for tannin bleed before proceeding.
- Not recommended for hardwood
- For a low lustre look, apply a single thin topcoat of Arborcoat[®] Waterborne Protective Clear Coat (636).

Product Information

Colors:—Standard:

None

— Gennex[®] Tint Bases:

White Base (01), Clear Tint Base (06)

—Special Colors:

Contact your Benjamin Moore representative

Certification:

VOC compliant in all regulated areas.

Federal Acceptance
Benjamin Moore[®] Arborcoat[®] Exterior Waterborne Semi Transparent Stain is a water-repellent coating which passes requirements of Federal Specification TT-W-572b, par. 3.7.

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[◇]

White Base

Vehicle Type 100% Acrylic Latex

Pigment Type Titanium Dioxide

Volume Solids 36%

Coverage per Gallon at Recommended Film Thickness 300 – 400 Sq. Ft.

Recommended Film Thickness – Wet 4.8 – 3.5 mils
– Dry 1.7 – 1.3 mils

Depending on surface texture and porosity. Be sure to estimate the right amount of paint for the job. This will ensure color uniformity and minimize the disposal of excess paint.

Dry Time @ 77°F – To Touch 1/2 Hour
(25°C) @ 50% RH – To Recoat with Clear 3 - 4 Hours

High humidity and cool temperatures will result in longer dry, recoat and service times. Allow 48 hours dry time before subjecting decks to normal foot traffic.

Dries By Evaporation, Coalescence

Viscosity 72 ± 3 KU

Flash Point None

Gloss / Sheen Flat

Surface Temperature – Min. 40°F
at Application – Max 90°F

Thin With See Chart

Clean Up Thinner Clean Water

Weight Per Gallon 10.3 lbs

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

Volatile Organic Compounds (VOC)

93 Grams/Liter .78 lbs./Gallon

[◇]Reported values are for White Base. 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 (316), following label directions, until a sound surface is obtained (loose or damaged wood fibers removed).

Previously Stained Surfaces: On deck surfaces remove previous coatings completely. 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, Multi-Purpose Cleaner (318) 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 (318) prior to coating the surface.

Caution: Refer to the 315, 316, 317 and 318 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 boxed or mixed to complete an entire section.

Stir thoroughly before and occasionally during use. Brushing is the preferred method of application. When applied by roller, spray, or dipping, back brushing is recommended to improve uniform distribution. Apply as received in the container. On properly prepared substrates, apply one coat of stain.

Start by coating a sample of the exact wood you intend to finish. The finished color and sheen of the stain system can vary depending on the type of wood—its natural color, texture, grain porosity, and section of log from which it was cut.

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 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.

Do not apply excess amounts as this will prevent optimum cure and may result in a solid color appearance. 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).

Thinning/Cleanup

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: Max of 8 fl. oz. to a gallon of stain Never add other stains, paints or solvents.
Roller: Premium Quality Nylon/Polyester		
Spray: Airless* Pressure: 1200 – 1800 psi Tip: 0.011 - 0.015"		

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. 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: This product contains a chemical known to the state of California to cause cancer and birth defects, or other reproductive harm.

FIRST AID: In case of eye contact, flush with water for 15 minutes; for skin, wash with soap and water. 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 Material Safety Data Sheet for
additional health and safety information.**