

ARMSTRONG-CLARK'S HARDWOOD STAIN

AMBER – MAHOGANY – BLACK WALNUT

PRODUCT DATA SHEET

DESCRIPTION: A high solids pigmented finish made from heavy and light bodied oils specially formulated for application on unpainted hardwoods. Heavy bodied oils provide water repellency. Trans-oxide pigments provide enhanced color retention on hardwoods. Light bodied oil penetrates into the wood. Armstrong-Clark's Hardwood Stains repel water, retain color longer, and reduce the frequency of re-coats on maintenance intensive hardwoods. One coat finish for hardwoods. For softwood applications a second coat may be applied if absorbency conditions are met.

UNIQUE QUALITIES: Armstrong-Clark's Hardwood stain formula is a combination of drying and non-drying oils that gives the user two layers of protection with one brush stroke. Armstrong's Wood Stains have a non-drying conditioning oil that separates from the drying side of the formula. This oil penetrates into the wood fiber where the wood's natural oil used to be. This process rejuvenates the wood. The drying oils stay at the surface, lock in the conditioning oil and create a barrier that is dry to the touch. Armstrong-Clark's Wood Stains have only a mild boiled linseed oil aroma and can be applied in the direct sunlight/ heat of the day. This stain will not peel or crack. Can be exposed to light to "normal" rain 60 minutes after absorption into wood. All of Armstrong-Clark's colors are inter-mixable.

USE: For all new and old hardwood lumber surfaces such as decks, posts, and railings. Can also be applied to any unpainted softwood surfaces such as: decks, docks, siding, shakes, shingles, fences and log homes.

BEFORE YOU START: Test stain choice for color and absorbency. Wood must have moisture content 20% or lower as determined by a moisture meter. Cedar shakes and shingles should have a moisture content 15% or lower to help prevent tannin bleed. Please call us at 800-565-8211 if you are applying stain to a deck that has less than 18" ground clearance or does not have adequate air ventilation underneath.

New Wood: New exotic hardwoods generally need six months after installation before staining. Applications to new exotic hardwoods less than six months may only last one to three months. Applications to new hardwoods can be expected to last nine to twelve months once the wood is a year old. Some wood manufacturers may require pre-staining all six sides of wood.

Rain Warning: Can be exposed to "light" to "normal" rain 60 minutes after stain absorbs into wood (not 60 minutes after application). If heavy rain is expected, wait until after the storm has passed. Clean if necessary. Let wood dry for 48 hours. At the time of application moisture needs to be 15% or less for cedar shakes and shingles; 20% for all other exterior wood applications. Cool temperatures and/or damp/ humid weather may lengthen dry times. **IMPORTANT NOTE:** Exotic hardwoods can take 8 to 24 hours to fully absorb stain. Absorption time can be observed when testing for color.

Hot weather: Enjoy application in the sunlight and heat of the day regardless of how hot it is outside.

Cool Weather Warning: Do not apply under 50 degrees. When daytime temperatures drop to 50 degrees, keep stain inside at room temperature and apply in the heat of the day. Freezing evening after absorption will not harm stain, but it will lengthen curing time.

Coverage: Coverage will vary depending on the age and species of the wood.

Hardwood application: 300+ sqft./gallon horizontal and vertical surfaces.

Softwood application: 175 - 200 sqft./gallon horizontal surfaces; 300 sqft./gallon vertical surfaces

SURFACE PREPARATION: Read "Before you Start" above. Surface must be clean and free of dust, dirt, mold, mildew, pollen, and moisture. Wait 48 hours after cleaning to allow wood to dry. Cool temperatures and/or damp/ humid weather may lengthen dry times. Wood must have moisture content 20% or lower as determined by a moisture meter. Cedar shakes and shingles should have a moisture content 15% or lower to help prevent tannin bleed.

New wood, aged wood, or wood previously sealed with Armstrong-Clark's: Wash surface using a mixture of soap, chlorinated bleach and water (1 part bleach to 3 parts water) with mild scrubbing. Rinse thoroughly and/or light pressure wash. Alternative cleaning methods can be found at www.armclark.com> support > in depth topics > wood preparation > cleaning chemicals summary.

Previously sealed with other brand stain: Remove previous stains that are not Armstrong-Clark's oil based wood stain. If stripping is required, be sure to apply brightener. Sanding is not recommended for hardwoods. If sanding do not use higher than 80 grit. If sanding please note the following warning:

WARNING! If you scrape, sand, or remove old paint from any surface, 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 AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Avoid contact with skin. Carefully clean up with a wet mop or HEPA vacuum. Before you start, find out how to protect yourself and your family by contacting the U.S. EPA/Lead www.epa.gov/lead.

APPLICATION INSTRUCTIONS: When testing for color apply stain just like you will when staining the project in an inconspicuous spot (ex. where a door mat will be placed) Wait 48-72 hours for color. Let morning dew dry before application. Stir thoroughly. Be sure to scrape off all pigment that may have settled to the bottom of the can. Stir every 20 minutes during application. Apply stain in the direction of the wood's grain. **More is not better when applying stain. DO NOT** apply with a rag. **DO NOT** wipe stain after application. Brush out any puddles before clean-up. After 24 hours remove any wet spots with a rag. Do not thin. Avoid dripping, running and over spray of Armstrong-Clark's wood stain as this might cause damage to garden plants and can stain painted surfaces. Do not apply to wood less than 1 year old. Drying time in humid climates and cooler weather can be significantly longer as compared to our other stains. Over application can result in rub-off.

Hardwood application: ONE COAT ONLY on hardwoods. DO NOT APPLY TO BAMBOO. Hardwoods have a limited ability to absorb wood stain. Sparingly apply a single thin coat with natural bristle brush, stain pad, or dual roller kitchen sponge mop. Recommend using a pad to even out brush applications. Rollers not recommended for hardwoods. Do not apply Transparent, Semi-Transparent, or Semi-Solid colors to hardwoods. Natural Tone can be applied but does not prevent premature wood graying.

Softwood application: Easy application by brush, stain pad, roller, or airless spray equipment. No garden sprayers. Back brushing or back rolling recommended with spray applications. Brushing and stain pads provide the most control and best results. Should the first coat absorb within 60 minutes, a second coat can be applied for extra protection. Apply second coat "wet-on-wet" or "wet-on-dry". All of Armstrong-Clark's colors can be applied to softwoods, including Mahogany, Amber, and Black Walnut.

Fire retardant shingles: apply 2nd coat "wet-on-dry" at least 48 hours apart.

Outdoor Furniture: 1 coat only. For Hardwood colors the application process is for tinting wood. WIPE OFF stain after 1 hour. Letting stain sit longer may result on pigment rubbing off onto clothes.

After Application: Brush out any puddles after application. Let stain soak in overnight. If there are any wet spots after 24 hours, remove them with a dry towel. See rag disposal and SPONTANEOUS COMBUSTION WARNINGS below.

Drying Time: After absorption into wood, allow 8 hours for light traffic, 72 hours for heavy traffic and for placement patio furniture. Cool and/or damp weather will lengthen dry times.

IMPORTANT NOTE: Be sure to double check stain has dried when staining horizontal surfaces that are above eye level. For example - a trellis or an arbor. Excess oil that does not dry will float on the water when it rains and then drip and/or run onto surfaces below.

CLEAN UP: Clean all equipment with paint thinner. All empty cans must be air dried. Dispose according to state and local regulations.

AVOID SPONTANEOUS COMBUSTION!

Immediately after use place used rags, sponges, and other waste in a sealed, water filled metal container to prevent spontaneous combustion.

MONTHLY MAINTENANCE: To keep stained surfaces looking their best, especially decks, once a month sweep, blow, or hose off to remove dust, dirt, grime, mildew, and mold. Do not scrub. If you live in a humid or damp environment consider applying a scrub free mildew stain remover (Wet & Forget) to control surface mildew.

APPLICATION MAINTENANCE:

Hardwood application: Life expectancy on hardwoods is 9 to 12 months.

Softwood application: Reapply at 2 to 4 year intervals for vertical surfaces and 1 to 3 year intervals for horizontal surfaces, depending upon weather exposure.

GENERAL PROPERTIES

VOC: Does not exceed 50 grams per liter

TYPE: Linseed oil based

CUSTOM COLORS: Armstrong-Clark's wood stains are NOT TINTABLE. However, all of Armstrong-Clark's colors can be intermixed to create custom colors.

THINNER: DO NOT THIN

FLASH POINT RANGE: >200°F closed cup

SOLIDS: 95% active ingredients

APPLICATION TEMPERATURE RANGE: 50° F to 110+° F

MOISTURE CONTENT: Must be 20% or lower as determined by a moisture meter. Cedar shakes and shingles should have a moisture content 15% or lower to help prevent tannin bleed.

DRYTIME: After absorption into wood, allow 8 hours for light traffic, 72 hours for heavy traffic and furniture. Cool and/or damp weather will lengthen dry times.