



Waterborne, semi-transparent stain formulated in hybrid acrylic and alkyd technology intended for the protection and decoration of exterior wood. Flat

BENEFITS & GENERAL DESCRIPTION: the new generation, innovative stain (combination of stain and lacquer) *ARBORCOAT*[®] *EXTERIOR WATERBORNE SEMI-TRANSPARENT DECK & SIDING STAIN N638* formulated in newest, waterborne technology combines the benefits of two approved binders - alkyd and acrylic resins. It provides the exceptional durability, effective wood protection and concern of natural environment.

Product creates semi-transparent, durable, hydrophobic finish mechanically resistant (to scratching and scrubbing), giving the natural wood exactly the look you want (enhances the texture and grain of wood), with no sacrifice in long-term protection.

The hybrid nature of binder provides the maximum penetration into the substrate, its best protection against the weather conditions like rain, temperature changes, UV radiation (stain consist highest quality UV absorbers) and against to microorganisms.

Arborcoat Stain N638 tint bases are tinted using the our Proprietary Gennex Colorant System based on colorants totally free of VOCs. Product provides superior color retention.

Stain is intended for protection of bare wood (not stained or painted) vertical and horizontal surfaces: fences, balustrades, garden furniture, summer-houses, beams, constructions, siding, porches, floors and decks.

Product is recommended especially for soft types like pine and cedar; not recommended on hard kinds.

PROPERTIES:

- *excellent protection of wood against the weather conditions*
- *enhances the texture and grain of wood*
- *high content of UV-absorbers ensures great substrate protection and color retention*
- *hydrophobic nature provides an effective protection against moisture*
- *excellent protection of wood against microorganisms*
- *excellent durability and mechanical strength*
- *very limited odor in compare to conventional solvent-borne alkyd stains*
- *excellent penetrating properties*
- *reduced content of „VOC“ compounds and ecological formula*

Technical information – (parameters of base for tinting)*	
vehicle type:	waterborne alkyd resin / acrylic / urethane blend
pigment type:	ultraviolet inhibitors
volume solids:	26 %
coverage:	approx. 10 m ² /l for one coat depending on surface texture, porosity and absorbing properties, application method and painting tool used. Test should be perform in order to determine the coverage of the given surface.
recommended film thickness:	
- wet	penetrating minimal
- dry	penetrating minimal
dry time (at temp. + 25°C and relative air humidity 50%):	
- to touch:	min. 2 hours
- to recoat (the next coat application):	min. 4 hours
- full cure and final technical parameters and durability:	min. 14 days
- the ability to use of horizontal surfaces like stairs, porches (walking through):	min. 24 hours
dries by:	evaporation and coalescence
viscosity:	62 ± 2 KU
flash point:	none
gloss/sheen:	flat
colors:	attractive range of 75 colors in Benjamin Moore tinting system Gennex [®] Platform. Product available in 3 tintable bases: clear 06, yellow 16 and red 20.
painting surface temperature:	min +5°C, max. +32°C
thin with:	not recommended, if needed use clean water
clean up thinner:	clean water
weight per 1 l*:	1,01 kg
storage temperature:	min. +5°C, max. +32°C
VOC:	EU VOC limit for this product (Cat. A/f): 130 g/l (2010). Max. VOC: < 130 g/l.
Certification:	● Product qualifies for: Master Painters Institute MPI # 156.
packaging**:	0,48 l; 3,78 l

* reported values are for Base for tinting and can be different in case of other Bases or colors, **3,78 L = 1 gallon; 0,95 L = ¼ gallon,

RECOMMENDED FOR

Range of use: exterior, bare wooden surfaces (especially for soft types like pine and cedar; not recommended on hard kinds). Under some conditions it is possible to apply the product to previously stained wood (see the section "Application").

Surface preparation:

● *new (not painted before) surfaces:*

Wooden substrates:

Bare wooden substrates must be dry and correct seasoned. **Moisture content of wood substrate must be below 15%.** Optimal performance is achieved when the product is applied to a clean, dry and absorbent wood substrate. This product must be able to penetrate.

Remove dirt, dust, wax, grease and oil spots, tree saps and loose or weak parts of substrate. All imperfections and cracks must be filled with a special patching compound for wood. Remove microorganisms (e.g. fungus and mildew) using a special agent. The surface must be sanded to allow proper penetration and adhesion.

Prepared in such way surfaces finish with *ARBORCOAT® EXTERIOR WATERBORNE SEMI-TRANSPARENT DECK & SIDING STAIN N638*.

● *previously stained, lacquered and painted surfaces:*

Generally product is intended to finishing bare wood surface, that's why it is recommended to remove all existing layers from the substrate using chemical (proper removing agent), mechanical method (scraping, sanding, etc.), or the both. However it is possible to apply *ARBORCOAT® EXTERIOR WATERBORNE SEMI-TRANSPARENT DECK & SIDING STAIN N638* to surfaces previously stained with transparent stain that is weathered but is not flaking or peeling.

In this case remove contaminants or chalky residue from weathered stained surfaces by washing with special cleaning agent and allow to dry thoroughly. If the existing stain is flaking or peeling it should be removed prior to staining.

Warning: depending on the specific features of wood (and differences between wood kinds) we recommend to carry out the test on small surface area. Positive result, decides on application of the product on the whole surface.

APPLICATION

NOTE: the product is intended only for professional use and may only be applied by professional contractors.

The substrate must be solid, completely dry, clean and free of dust. The product is in ready to use form. Stir thoroughly before and occasionally during use.

Warning: in some cases the color of stain in a can (liquid form) can vary from the final color achieved after stain application and completely drying on the surface.

Provide enough stain from one production batch for painting of whole project. Stir the product during use in order to avoid sedimentation on the can bottom.

Apply 1 or 2 coats (on proper prepared substrate one layer is enough). A second coat provides optimal performance and uniformity. Wait for the first coat to dry for 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.

Apply by brush, roller, pad applicator or by spray. For airless method provide the following parameters: pressure 55÷103 bar and tip 0.011-0.015. 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.

When staining job is conducted in high temperature, the relative air humidity below 50%, in direct sunlight or windy conditions add *518 EXTENDER* to *Arborcoat®* stain in the amount of max. 235 ml to 3,78 l stain. It's possible also to add some clean water in the same amount. Never add other paints or solvents.

The final color of stained surfaces depends on the wood type, its natural color, structure, wood density and cross-section. We recommend to carry out the test on small surface area of given surface (the same wood type).

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 edges.

On siding or decking apply the stain on section of 2-3 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 (use „wet in wet” system).

It is recommended to use BENJAMIN MOORE or PREMIER painting tools and FrogTape® (with PaintBlock Technology®), KIP® or Painter's Matte Green® masking tapes.

Weather conditions during and after application:

Carry out the painting work at the air and substrate temperature min. +5°C and max. +32°C.

The optimal conditions: + 20°C and relative air humidity 50%. Do not apply in direct sunlight or on a hot surface, avoid rain, moisture or high humidity for the first 48 hours of curing. High humidity or cooler temperatures will prolong mentioned time up to few days.

Drying time:

At the temperature of +25°C and relative air humidity 50% the paint dries approx. 2 hours. At mentioned weather conditions the next coat apply after min. 4 hours.

The coat achieves the final parameters and resistance after min. 14 days after application.

Clean up:

Wash painting tools in warm soapy water immediately after use.

NOTE:

The product is intended only for professional use and may only be applied by professional contractors.

Ensure enough amount of product from one production batch in order to avoid some color differences.

Do not use Bases not tinted in GENNEX® Platform system. Only GENNEX® Waterborne Colorants can be added to ARBORCOAT® stains

The coat achieves the final parameters and resistance after min. 14 days after application.

Producer is not responsible for bad quality of the painted surface if the above instructions aren't obeyed. Producer is not responsible for the damages appeared in results of use over 3,78 l of stain, because to this quantity any defects of product should be demonstrated and notified in the proper point of sale.

ENVIRONMENTAL: Do not pour liquid residues into sewerage systems. They should be referred to specialized companies with appropriate authorization for disposal.

Empty cans and liquid waste should be recycled or disposed of in accordance with local regulations.

HEALTH & SAFETY INFORMATION: Do not eat. Keep out of reach of children. Avoid contact with eyes and prolonged contact with skin. In case of eye contact, flush immediately with plenty of water. In case of ingestion clean mouth with water and afterwards drink plenty of water. Consult a physician; show this container or label. Do not breathe spray mist or sanding dust. Use only with adequate ventilation. Ensure fresh air entry during application and drying. During application in closed spaces, wear the protective clothing, gloves and eye/face protection. In case of spraying method wear approved respirator. MSDS available on demand of consumer.

EXPIRE DATE: 4 years from the production date in the factory-sealed package.

The expire date is indicated on the packaging.



This specification is effective from: 03.2022.

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