



Armorite®

EXTERIOR TRIM



Trim Installation Instructions and Care Guidelines

How to store, handle, cut, fasten, prime, caulk, prep and paint
Armorite® Exterior Trim for long-lasting, beautiful results.



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INTRODUCTION

Roseburg Forest Products Co.'s ("Roseburg") Trim Installation Instructions and Care Guidelines (the "Instructions") describe the minimum requirements for installation and finishing that must be followed to qualify for coverage under Roseburg's Armorite® Exterior Trim 50-Year Limited Warranty.

Aarmorite® Exterior Trim (the "Product") is an exterior trim product manufactured with no added formaldehyde. The resin formulation is specifically designed for exterior applications and the proprietary biocidal treatment process makes Armorite® Exterior Trim rot and insect resistant. Armorite® Exterior Trim conforms to the International Building Code and the Residential Code. Weather resistance, termite resistance, decay resistance, corrosion of metals and fasteners, and structural performance-transverse wind loading have been evaluated. These properties and the Code compliance of Roseburg's Armorite® Exterior Trim are documented in International Code Council Evaluation Service (ICC-ES) evaluation service report ESR-4012.

These Instructions are general in nature and not intended to cover every application condition. Roseburg encourages designers, installers and property owners to read these instructions to prevent the potential for voiding any applicable warranties. Proper installation shall be understood to be the most restrictive requirement specified by these Instructions, local building code, designer of record or other authority having jurisdiction unless otherwise specified in writing by Roseburg. You assume full responsibility for using good safety practices when installing Armorite® Exterior Trim.

Technical Questions?



Armorite® Exterior Trim

These Instructions cover the general installation requirements for Armorite® Exterior Trim. Armorite® Exterior Trim should be installed using good building practices in accordance with local building codes, and these Instructions. It is the responsibility of the purchaser, general contractor, installer and others who are using or installing the Product to ensure it is installed properly and that all building codes, industry standards, and these Instructions are followed. Roseburg shall not be responsible or liable for the improper installation of Armorite® Exterior Trim.

GENERAL INFORMATION

Trim installations that are not in compliance with the Instructions are excluded from coverage under Roseburg's Armorite® Exterior Trim 50-year Limited Warranty.

Armorite® Exterior Trim is not designed to sit in an environment that promotes water saturation. This includes being submerged in water, installed directly against siding or wood sheathing that has an internal moisture content greater than 19%, absorptive claddings, poor flashing, etc.

All Armorite® Exterior Trim must be installed against a secured surface and sealed in a manner that prevents moisture intrusion and water build up as further specified in these Instructions. Proper water deflection and flashing practices are the responsibility of the designer-of-record and general contractor. Improper flashing that fails to adequately direct water away from the structure will void the Armorite® Exterior Trim Limited Warranty.

Armorite® Exterior Trim is not designed to be used as siding, or for structural applications such as a trellis, railing, fencing, decking, or sills.

Armorite® Exterior Trim must be installed over a solid backing. Solid backing includes structural wood sheathing and wood wall stud framing.

Roseburg makes no warranties other than the limited warranties set forth in the Armorite® Exterior Trim Limited Warranty and expressly disclaims any warranty that the product protects against mold and mildew.

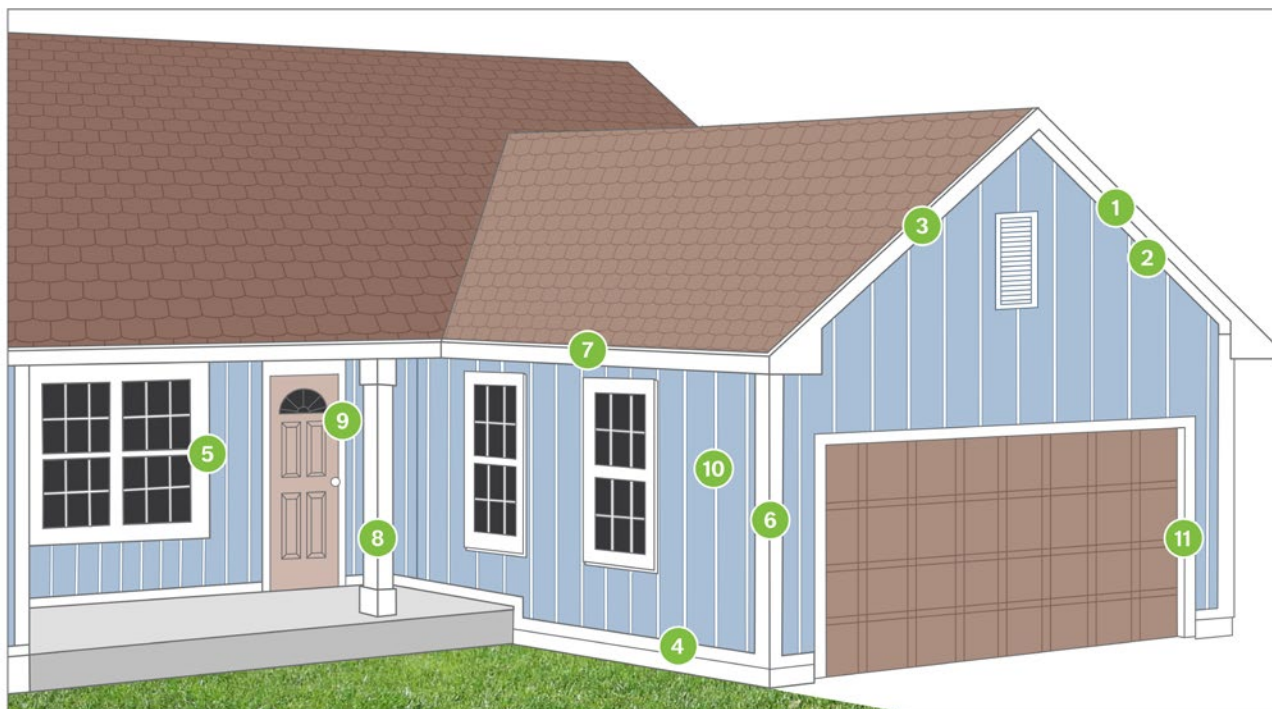
Armorite® Exterior Trim may not be suitable for every application and it is the sole responsibility of the installer to be sure that Armorite® Exterior Trim is fit for the intended use.

Armorite® Exterior Trim must be installed no closer than 6-inches above finished grade. Do not allow trim to be in direct contact with masonry or concrete.

Armorite® Exterior Trim must be elevated at least 1-inch above roofing materials, porches, patios, sidewalks, etc.

Trim must not be installed in direct contact with concrete, brick, masonry or other absorptive claddings.

COMMON TRIM APPLICATIONS



- | | | |
|------------------------------|----------------|----------------|
| 1 Soffit | 5 Window trim | 9 Door casing |
| 2 Frieze board | 6 Corner board | 10 Batten |
| 3 Rake board or shingle mold | 7 Fascia | 11 Garage trim |
| 4 Belly band or band board | 8 Column wrap | |

Armorite® Exterior Trim

STORAGE & HANDLING

- Units of Armorite® Exterior Trim are shipped from the manufacturer with a protective covering. The protective covering should be left on the Product until it is ready to be installed.
- Armorite® Exterior Trim should be stored on an elevated, well-drained, supportive surface.
- Ensure that storage areas, as well as all framing and substructures are level.
- Protect Armorite® Exterior Trim from water, weather and sunlight when not in use using a roof or alternative waterproof covering.
- Take care to keep Armorite® Exterior Trim off of the ground, dry, and free of dirt and debris. Inspect the Armorite® Exterior Trim for damage or contaminants prior to installation.
- If Armorite® Exterior Trim becomes dirty, clean before installation in accordance with the Care & Maintenance Guidelines in this installation guide.
- Armorite® Exterior Trim should be stored to allow the product to reach equilibrium to end use conditions prior to installation. Time to reach equilibrium is dependent on environmental conditions and can vary depending on location.
- Ensure stacked units are stable and level.



CUTTING

- Armorite® Exterior Trim can be cut using a sharp fine tooth carbide saw blade. This will ensure a clean cut and minimize surface chipping.
- Carbide tipped blades designed to cut wood are recommended. Blades used for cutting metal should not be used.
- All visible cut edges exposed to weather must be sealed by brushing or rolling an appropriate exterior primer/sealer and top coat. These edges may be painted with a gloss plus primer spray paint prior to installation. Gloss versions of KRYLON® Fusion All-In-One® and Rust-Oleum® Universal® perform well. Take care to minimize over spraying the trim surface.

[See Painting section]

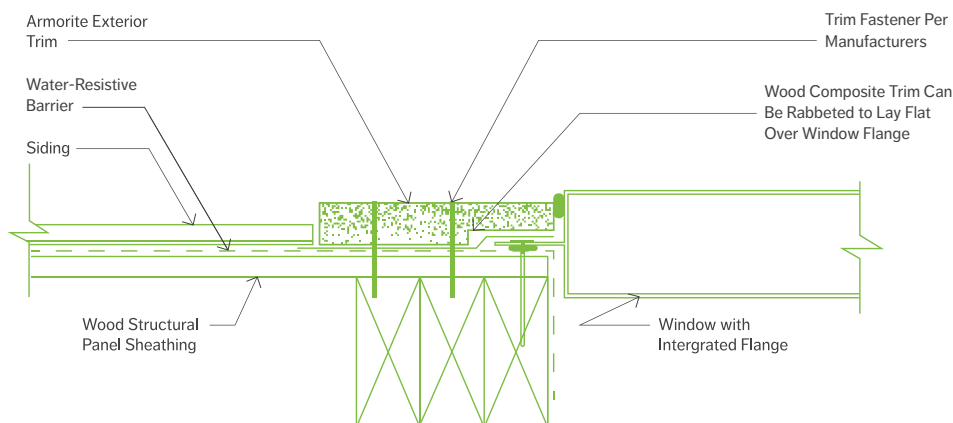
- Ease the edge (at a radius of 1/16" or greater) of any exposed cut to ensure adequate coating coverage prior to installation. [See Painting section]



Eased Edges

DRILLING AND MACHINING

- Armorite® Exterior Trim products can be drilled using the same drill bits and tools used for typical lumber.
- Drilling Armorite® Exterior Trim products is similar to drilling hardwood. Care should be taken to avoid frictional heat build-up.
- Builders may choose to pre-drill for large diameter fasteners or in cold weather to minimize the risk of splitting the trim or "mushrooming" around the fastener head.



Window Section Detail with
Rabbet Cut on Back Side of Trim

Armorite® Exterior Trim

FASTENING

- Only use fasteners that are suitable for attaching exterior wood trim. This includes common nails, finish nails, and siding nails. Do not use staples.
- Fasteners must be hot-dipped zinc-coated galvanized steel or stainless-steel fasteners in accordance with Section R703 of the IRC. Bright and electrogalvanized do not provide sufficient corrosion resistance for exterior applications.
- When using Armorite® Trim in an interior application, electrogalvanized nails are acceptable.

ACCEPTABLE FASTENERS

Nail Type	Min. Substrate Penetration*	Min. Shank Diameter
Common	1.25"	6d (0.113")
Finish	1.25"	15 Gauge (0.072")

*Substrate penetration includes combined thicknesses of wood structural panel sheathing and wood stud framing. It does not include mesh rainscreens or exterior insulation.

- When using pneumatic tools, the air pressure should be regulated so that fasteners firmly secure the trim to the structure. Try to avoid fastener heads penetrating too far into the trim surface. **[See Nail Depth graphic]**
- Armorite® Exterior Trim must be fastened into solid framing. Avoid fastening Armorite® Trim into hollow or uneven areas.
- Where necessary, Cover countersunk fastener heads with a high-quality, non-shrinking exterior-use wood putty or spackling compound to seal penetrations. **[See Prep Work section]**
- Fastener Length: Fasteners must be long enough to fully penetrate structural substrate (combined thickness of wood structural panels and wood studs) a minimum of 1.25 inch (32 mm). Rainscreens and exterior insulation provide no resistance to nail withdrawal and do not count towards the minimum 1.25 inches of nail embedment requirement.
- Fastener Placement: Fasteners must be installed within 2", and no closer than 3/8", of the end of each board. **[See Corner Fasteners graphic]**

FASTENER QUANTITY AND SPACING:

Trim Width	No. of Rows Req'd. (spaced evenly)	Max. o.c. nail spacing*
≤ 5 1/2"	2	16"
7 1/4" – 11 1/4"	3	16"
> 11 1/4"	4	16"

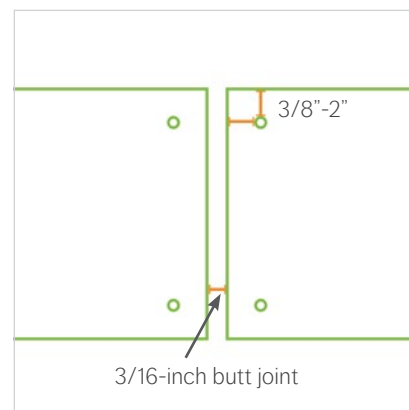
*Maximum o.c. fastener spacing may be increase to 24" o.c. for wall stud framing that is spaced 24" o.c.

- Fastener Sequencing: Fasten at one end and work towards the other or begin in the middle and work towards each end. DO NOT fasten each end and then work towards the middle.
- Allow 3/16-inch gap between board and other adjacent materials to allow for caulking. **[See Prep Work section]**

NAIL DEPTH

Condition		Remedy
Underdriven		Hammer Flush & Paint
Snug		Paint
Flush		Paint
Countersunk up to 1/8"		Exterior Putty & Paint
Countersunk more than 1/8"		Exterior Putty Add Nail & Paint

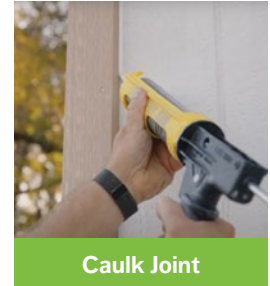
CORNER FASTENERS



Armorite® Exterior Trim

FASTENING (CONT)

- Joints between pieces of trim material should be sealed with exterior grade caulk to prevent moisture intrusion. **[See Prep Work section]**
- Joint between siding and trim should be caulked per the caulk manufacturer's installation instructions.
- When mitering two pieces of Armorite® Exterior Trim, gluing the raw edges together may help maintain a tight joint. Use a high-quality exterior grade carpenters glue or construction adhesive. Ensure that the glue or adhesive used can be sanded and painted when cured. The use of adhesive DOES NOT change nailing requirements.
- When butting the ends of two pieces of trim together, properly gap butt joint minimum 3/16" or modest angle scarf joint.
- Horizontal scarf joints are acceptable and may reduce potential for caulk sealant to appear proud of the face of the trim. Do not install vertical scarf joints.



Caulk Joint

MOISTURE CONTROL

- Proper water and moisture management are critical for the success of any exterior wall system. Wall systems should be designed and constructed against water intrusion in accordance with applicable building codes for deflection, draining, drying and durability.
- Armorite® Exterior Trim is a wood product, and, as with all wood products, must be kept free from atypical sources of water like lawn sprinklers and leaky hose bibs. It is the responsibility of the general contractor to ensure structures are properly flashed, sealed and caulked. Any product issues resulting from atypical sources of water exposure or improper water or moisture management are outside the scope of the Armorite® Exterior Trim 50-year limited warranty.
- Do not install Armorite® Exterior Trim to a structure having excessive moisture conditions such as drying concrete, plaster, or wet blown cellulose insulation. Do not install in direct contact with absorptive claddings or wood siding with an internal moisture content above 19%. Absorptive claddings are exterior wall coverings that absorb and retain bulk water.



Armorite® Exterior Trim

PREP WORK

- All cut surfaces that will be permanently exposed to weather after installation should be primed and top coated. Pay special attention to raw edges at the bottom of vertical pieces. These edges may be painted with a gloss plus primer spray paint prior to installation. Gloss versions of KRYLON® Fusion All-In-One® and Rust-Oleum® Universal® perform well. Take care to minimize over spraying the trim surface.
- Whenever Armorite® Exterior Trim transitions from one piece to another or to exterior cladding, windows, doors or other materials, that joint must be caulked using an exterior-grade caulk sealant that is highly durable, designed not to shrink, and remains flexible. It must also satisfy the following performance requirements.
 - Application Temperature of 0F (-18C) and 120F (49C)
 - Joint Movement +/- 25% or greater per ASTM C719
 - Peel Adhesion per ASTM C794
- Two known brands that have been tested with Armorite Trim and found to perform well are OSI® QUAD® MAX by Henkel Corporation (See OSI QUAD Max Data sheet at OSITough.com) and BIG STRETCH® by Sashco. (See Big Stretch Technical Data Sheet at sashco.com) Follow the manufacturer's instructions. (See testing documentation on www.roseburg.com.)
- Fill surface imperfections, like nail holes, with exterior grade, weather-proof, non-shrinking wood putty or spackling compound.
- To promote uniform paint coverage at exposed sharp corners, easing of edges is recommended. 220-grit sandpaper works well. All paints will draw away from a sharp edge or corner, regardless of what is being painted: metal, plastic, lumber, plywood and Armorite® Exterior Trim. Because the paint coating is very thin on this area, any expansion and contraction resulting from ambient changes will cause the paint to crack if not properly eased and caulked.

PAINTING

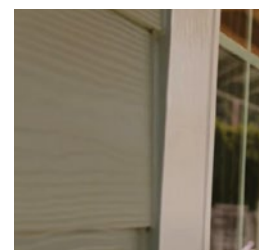
- All trim, caulk, and nail hole filler must be painted. They can not be left permanently exposed.
- Armorite® Exterior Trim surfaces must be clean, dry, and void of any foreign material such as dirt, oil, grease or other contaminants that may come from normal handling, storage and/or installation prior to painting. Soon after all caulk, putty and other prep work are complete, apply an exterior-quality 100% acrylic latex paint, specially formulated for use on wood and engineered wood substrates; oil paint is acceptable per the manufacturer's application instructions. Use of a high-quality 100% acrylic exterior-grade paint that is applied to achieve 3.0-4.0 dry mils (the thickness of a typical sheet of notebook paper is about 4 mils) is recommended. Not all 100% acrylic coatings are formulated the same nor do they have the same performance or durability characteristics. Please refer to your paint manufacturer to ensure compatibility for use over engineered wood substrates and that the product meets the performance expected. Follow paint manufacturer's application instructions.
- DO NOT USE semi-transparent or transparent coatings.
 - DO NOT USE Vinyl-based resin formulas such as polyvinylvinyl acetate (PVA), acetate/ acrylic copolymer paint.
 - DO NOT USE flat oil or flat alkyd paints, oil base transparent or opaque stains.
- Refer to your paint manufacturer representative for compatibility with Armorite® Exterior Trim.
- A minimum prime coat film thickness of 1.5 dry mils (about the thickness of a bread bag) is required on all cuts permanently exposed to weather, followed by an exterior 100% acrylic topcoat.
- On surfaces that do not have the factory applied sealer and primer or if an additional layer of primer is desired, use an exterior oil or water-based primer formulated for use on wood composite products.
- Prep Work and Painting to be completed within 90-days of Armorite® Trim installation. Pay special attention to raw edges at the bottom of vertical pieces. These edges must be primed and top coated.
- **DISCLAIMER: The Armorite® Exterior Trim Limited 50-year Warranty does not cover the performance of painted finishes or coatings applied to the Product.**



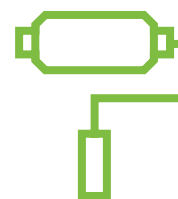
Prime Exposed Raw Edges before Top Coating



Top Coat Exposed Surfaces



Caulk and Paint Siding/Trim Transition



Armorite® Exterior Trim

CARE & MAINTENANCE GUIDELINES

- Power wash or hose off any loose dirt or debris. Make sure to test the setting for the power washer to ensure it will not damage the surface of the board.
- If the board does not come clean, Armorite® Exterior Trim can be cleaned with mild detergent and a medium nylon bristle brush. Rinse with a hose or power washer (be sure to test the pressure so it does not harm the surface of the board). Other cleaning methods include using a soft cloth and a mixture of mild detergent.
- When using cleaners other than a mixture of mild detergent and water, it is best to test on a small area, or a scrap piece of Armorite® Exterior Trim, to make sure it does not harm the surface or damage the product's appearance. Always read the cleaning product manufacturer's specific information before using any product on your Armorite® Exterior Trim and follow their instructions.

ANNUAL TRIM MAINTENANCE INSPECTION

- A visual inspection of the condition and serviceability of trim, caulk, and paint should be performed annually. Failure to perform regular maintenance may void the Armorite® Exterior Trim Limited Warranty.
- Condition of Caulk: Loose and cracked caulk must be removed and replaced with a high-quality caulk. Do not use hard-setting caulk. Follow caulk manufacturers instructions for proper maintenance, inspection, diagnosis, removal, and replacement procedures. **[See Prep Work section]**
- Presence of Mildew: Mildew is a living organism (fungus) that grows on the surface of finishes giving the paint a darkened, dirty appearance. Do not paint over mildew without first cleaning the Armorite® Exterior Trim with a mildew cleaning solution. Mildew cleaning solutions, available at local paint, lumber and hardware stores, will help retard and control this growth. The control of mildew on the surface of Armorite® Exterior Trim is a homeowner responsibility. Roseburg makes no warranties other than the limited warranties set forth in the Armorite® Exterior Trim Limited Warranty and expressly disclaims any warranty that the Product protects against mold and mildew.
- Condition of Painted Trim: The condition of the paint must be inspected and maintained as noted in the following table.

CONDITION OF PAINT	ACTION REQUIRED
Good condition/unbroken	Clean and remove dirt
Thin, but unbroken finish	Clean and apply a top coat with minimum mil thickness per manufacturer.*
Badly eroded, substrate showing	Clean, prime, and apply a top coat with minimum mil thickness per manufacturer.*
Crack, flaking, substrate exposed	Remove loose paint film, clean, prime, and apply a top coat with minimum mil thickness per manufacturer.*

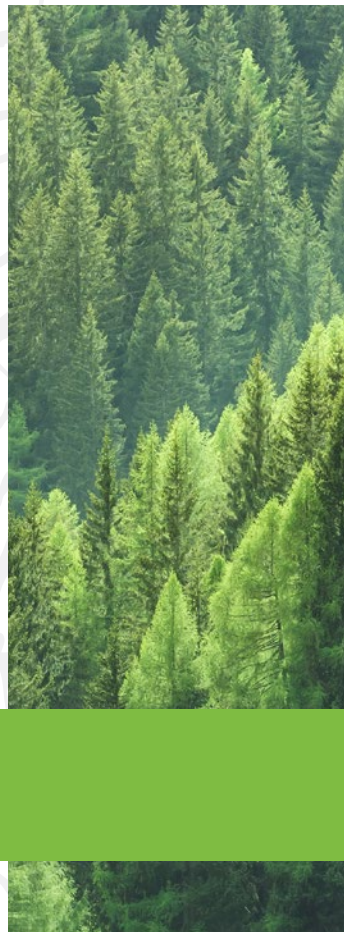
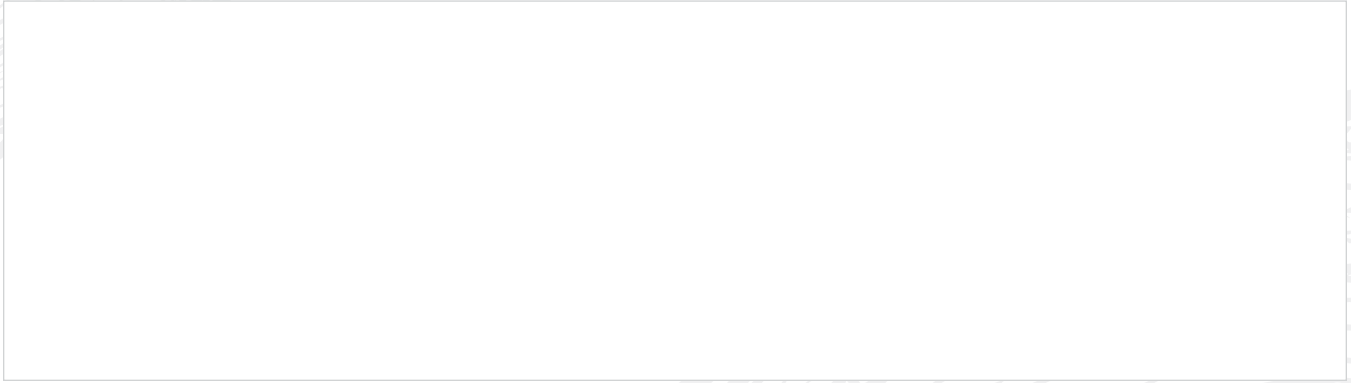
*Two topcoats may be required.

Armorite® Exterior Trim

CARE & MAINTENANCE GUIDELINES

- **CAULK** – Exterior-grade caulk sealant that is highly durable, designed not to shrink, and remains flexible. It must also satisfy the following performance requirements. **[See Prep Work section]**
- Two known brands that have performed well in both laboratory and field testing are **OSI® QUAD® MAX** by Henkel Corporation and **BIG STRETCH®** by **Sashco**. Follow the manufacturer's instructions for application. Two known brands that have been tested with Armorite Trim and found to perform well are OSI® QUAD® MAX by Henkel Corporation (See OSI QUAD Max Data sheet at OSITough.com) and BIG STRETCH® by Sashco. (See Big Stretch Technical Data Sheet at sashco.com) Follow the manufacturer's instructions. (See testing documentation on www.roseburg.com.)
- **SEALER** – Do not use silicone-based water sealers.
- **PRIMER** – For areas that require additional primer, use an exterior oil or water-based primer formulated for use on wood or wood composite products.
- **TOP COATS** – For best results use exterior-quality 100% acrylic latex paint, specially formulated for use on wood and engineered wood substrates; oil paint is acceptable per the manufacturer's application instructions. Use of a high-quality 100% acrylic exterior-grade paint that is applied to achieve 3.0-4.0 dry mils is recommended. Not all 100% acrylic coatings are formulated the same nor do they have the same performance or durability characteristics. Please refer to your paint manufacturer to ensure compatibility for use over engineered wood substrates and that the product meets the performance expected. Follow paint manufacturer's application instructions. **[See Prep Work section]**
- **WATER DRAINAGE/DIVERSIONS** – Allowing water from roofs and sprinklers to run down the surface of the Armorite® Trim can cause discoloration and accelerated erosion of the paint.
- Due to variables involved in field application of finishes, Roseburg cannot be responsible for the performance of field applied coatings.
- Appropriate action(s) must be taken to remedy any of the above noted conditions or Roseburg may deny warranty claims for any resulting damage.

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Technical
Questions?

