



Armorite®

EXTERIOR TRIM



Trim Installation Instructions and Care Guidelines

How to store, handle, cut, fasten, prime, seal 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.

Armorite® 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 2015, 2018, and 2021 International Building Code ("IBC"), as well as the 2015, 2018, and 2021 International Residential Code. Weather resistance, termite resistance, decay resistance, corrosion, and structural properties 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.

Trim Installation Instructions and Care Guidelines

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.

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.

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.

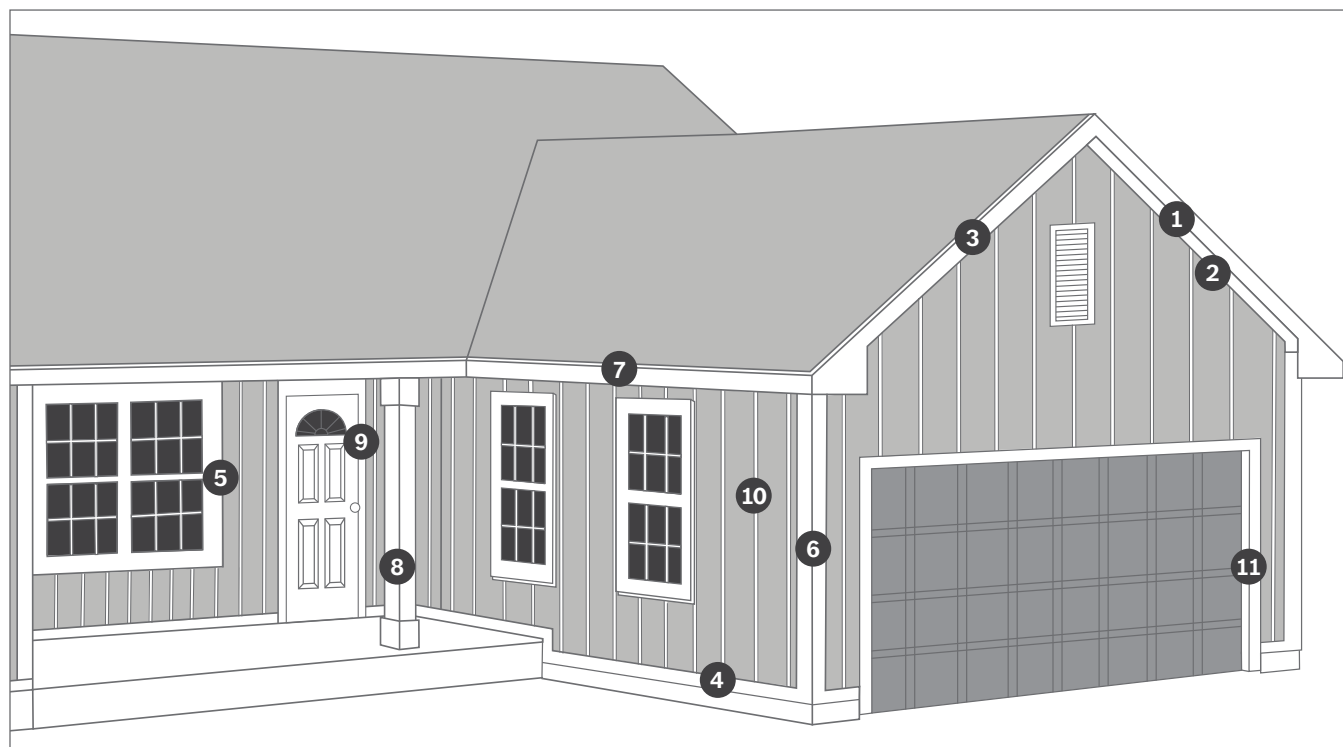
Roseburg makes no warranties other than the limited warranties set forth in the Armorite® Exterior Trim Limited Warranty, and expressly disclaims any warranty that the product protects against mold and mildew.

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 grade and 1-inch above concrete surfaces.

Armorite® Exterior Trim must be elevated at least 1-inch above roofing materials.

TRIM USES



- 1 Soffit
- 2 Frieze board
- 3 Rake board or shingle mold
- 4 Belly band or band board

- 5 Window trim
- 6 Corner board
- 7 Fascia
- 8 Column wrap

- 9 Door casing
- 10 Batten
- 11 Garage trim

Trim Installation Instructions and Care Guidelines

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 at the jobsite. 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 Armorite® Exterior Trim Care & Maintenance Guidelines.
- 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.



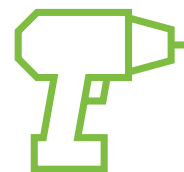
CUTTING

- 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. **[See Caulking and Painting section]**
- All joints, including butt, mitered, scarfed or beveled, must be sealed with an acceptable caulk product to prevent moisture intrusion. **[See Caulking and Painting section]**
- Ease the edge (at a radius of 1/16" or greater) of any exposed cut to ensure adequate coating coverage. **[See Caulking and Painting section]**



DRILLING AND MACHINING

- Armorite® Exterior Trim products can be drilled using the same drill bits and tools used to drill 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.



Trim Installation Instructions and Care Guidelines

FASTENING


- For best results, use fasteners designed for wood trim and wood siding. This includes common nails and siding nails. Siding nails typically have a deformed shank for greater resistance to nail withdrawal.
- Fasteners must be hot-dipped zinc-coated galvanized steel or stainless steel fasteners in accordance with Section R703 of the IRC.
- When using screws, pre-drill and countersink holes and apply proper exterior putty, primer and paint.
- Standard nail guns work well with Armorite® Exterior Trim. If 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]

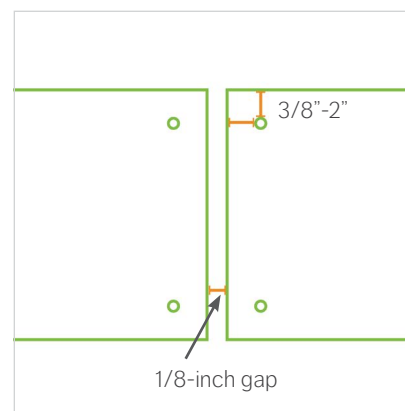
- Armorite® Exterior Trim must be fastened into solid framing. Fastening Armorite® Trim into hollow or uneven areas must be avoided.
- Where necessary, cover fastener heads with high-quality paintable elastic caulk sealant or an exterior-use wood putty to seal penetrations. **[See Caulking and Painting]**
- Fastener Length: Fasteners must be long enough to fully penetrate structural framing or wood structural panels and structural framing a minimum of 1.25 inch (32 mm).
- Fastener Placement: Fasteners must be installed within 2", and no closer than 3/8", of the end of each board. **[See Fastener Placement graphic]**
- Fastener Spacing: Trim must be fastened with a minimum of two fasteners at each end for trim that is less than 7-inches wide. For trim that is 7-12 inches wide, use 3-fasteners to secure each end. For greater than 12-inch wide trim use 4-fasteners at each end. Intermediate fasteners should be spaced more than 16-inches oc unless framing spacing is greater. Every fastener should be in solid framing. **[See Fastener Spacing and Quantity graphic]**
- 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.
- Fastener Quantity: For trim under 7" (178 mm) wide, use a minimum of 2 rows of fasteners per width. For trim 7" (178 mm) to 12" (305 mm) wide, use a minimum of 3 rows of fasteners per width. For trim over 12" (305 mm) wide, use a minimum of 4 rows of fasteners per width. **[See Fastener Spacing and Quantity graphic]**
- Similar to other exterior wood-based products, Armorite® Exterior Trim may expand and contract with normal seasonal changes in rainfall and humidity. Properly fastening Armorite® Exterior Trim along its entire length will minimize expansion and contraction.
- Allow a 1/8-inch gap between pieces of Armorite® Exterior Trim to accommodate for typical expansion and contraction. Joints between pieces of trim material should be sealed with the required exterior grade caulk to prevent moisture intrusion. **[See Fastener Placement graphic]**
- To bond Armorite® Exterior Trim to other substrates, use a paintable exterior grade construction adhesive with 300psi minimum bond strength and 40° F minimum application temperature. The use of adhesive DOES NOT alter fastener requirements per these Instructions.
- When butting the ends of two pieces of trim together, use a properly gapped butt joint or modest angle scarf joint.

NAIL DEPTH

CONDITION	CORRECTION
Snug	Paint
Flush	Paint
Visible Fiber	Paint
Counter sunk 1/16"-1/8"	Exterior putty & paint
Counter sunk more than 1/8"	Exterior putty, paint & add nail

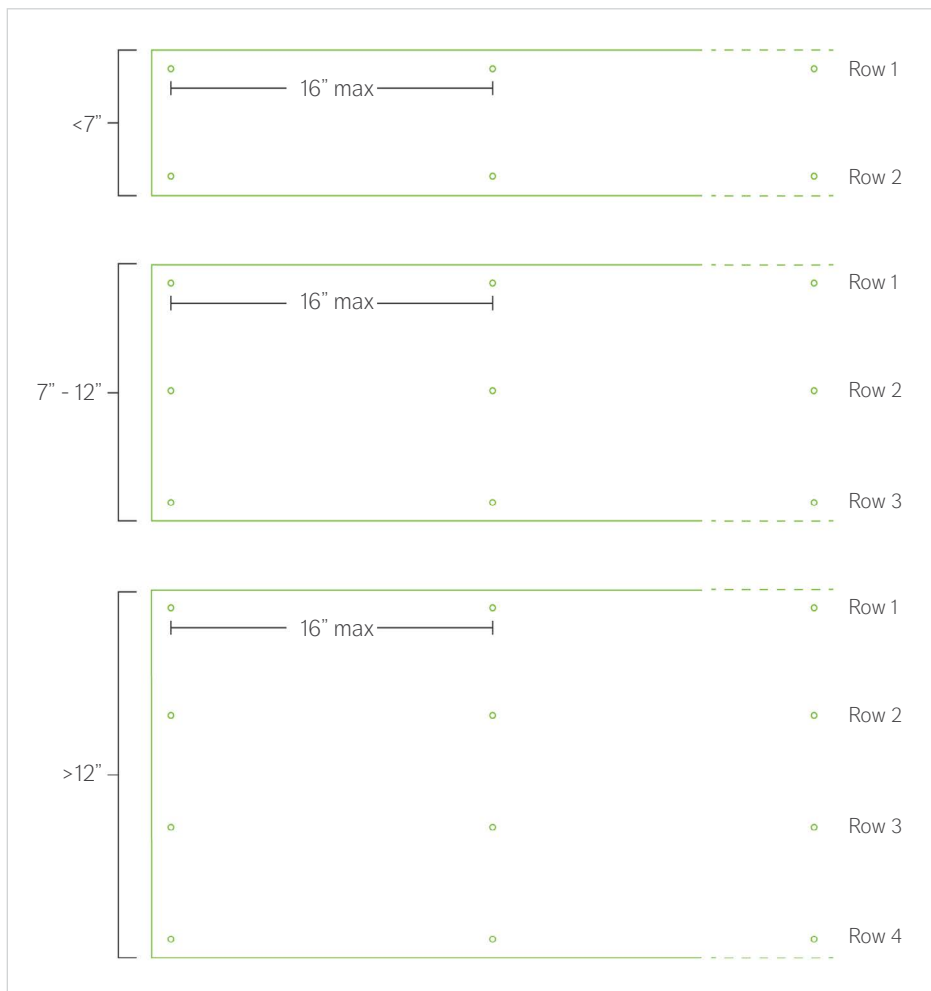


FASTENER PLACEMENT



Trim Installation Instructions and Care Guidelines

FASTENER QUANTITY



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.

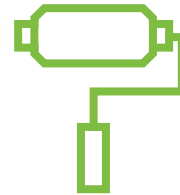


Trim Installation Instructions and Care Guidelines

CAULKING AND PAINTING

- All cut surfaces that will be permanently exposed to weather after installation should be primed and top coated.
- 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
 - Hardness of 25 or greater per ASTM C661.
- Two known brands that perform well and satisfy the above, are **OSI® QUAD® MAX** by Henkel Corporation and **LEXEL®** by Sashco. Follow the manufacturer's instructions for application.
- 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.
- Following installation of Armorite® Exterior Trim, seal all joints and penetrations with suitable caulk sealant. Follow cure rates specified by the manufacturer.
- Soon after all caulk, putty and other prep work are complete, apply a high-quality exterior 100% acrylic latex paint, specially formulated for use on wood and engineered wood substrates. All exposed Armorite® Exterior Trim edges, including bottom edges, must be properly coated. Follow the caulk, putty and coating manufacturers' published application and installation instructions.
- DO NOT USE semi-transparent or transparent coatings.
 - DO NOT USE Vinyl-based resin formulas such as vinyl acetate, PVA, vinyl acetate/acrylic copolymer paint.
- Refer to your paint manufacturer representative or pre-finisher for color options and compatibility with Armorite® Exterior Trim.
- A minimum prime coat film thickness of 1.5 dry mils is required on all exposed cuts, 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 and is compatible with the topcoat finish to be applied.
- Armorite® Exterior Trim will readily accept most exterior coatings formulated for application over wood and engineered wood products. Topcoats used over Armorite® Exterior Trim are recommended to be applied to achieve a dry film build of 3.0 to 4.0 dry mils. Refer to paint manufacturer's published application instructions.
- Top coat must be applied after installation of fasteners and caulk applications so that fastener holes are sealed and protected from moisture intrusion.
- To promote uniform paint coverage at exposed sharp corners, easing of edges (minimum 1/16" radius) is recommended. 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.

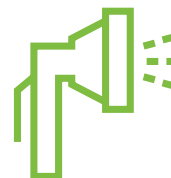
DISCLAIMER: The Armorite® Exterior Trim Limited 50-year Warranty does not cover the performance of painted finishes or coatings applied to the Product.



Trim Installation Instructions and Care Guidelines

ARMORITE® EXTERIOR TRIM CARE & MAINTENANCE GUIDANCE

- 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.



AN ANNUAL INSPECTION OF THE TRIM TO INCLUDE THE FOLLOWING:

- The following annual inspection of the Product must be performed to ensure compliance with the provisions of the Armorite® Exterior Trim Limited Warranty:
- Condition of Caulk and Sealant: Loose and cracked caulk must be removed and replaced with a high-quality caulk. Do not use hard-setting caulk. **[See Caulking and Painting 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: Armorite® Exterior Trim is manufactured from wood and is primed at the factory. Following installation, Armorite® Exterior Trim must be painted with an exterior coating designed for use on wood 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.

Trim Installation Instructions and Care Guidelines

CARE 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.
 - Application Temperature of 0F (-18C) and 120F (49C)
 - Joint Movement +/- 25% or greater per ASTM C719
 - Hardness of 25 or greater per ASTM C661.

Two known brands that have performed well in both laboratory and field testing, and satisfy the above requirements, are **OSI® QUAD® MAX** by Henkel Corporation and **LEXEL®** by **Sashco**. Follow the manufacturer's instructions for application.

- **SEALER** – When using a sealer, choose one that is clear and acrylic. Do not use silicone-based water sealers.
- **PRIMER** – Use an exterior oil or water-based primer formulated for use on wood composite products which will provide a proper surface for top coat adhesion. Top coats should be compatible with the applied primer.
- **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.

All exposed Armorite® Exterior Trim surfaces, including the bottom edges, must be properly coated.

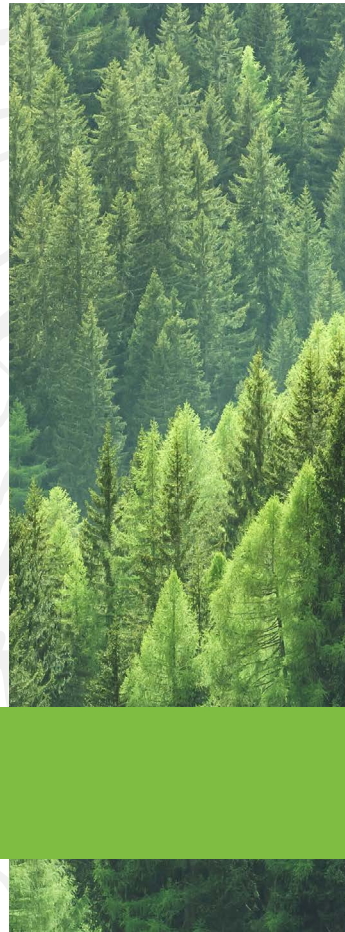
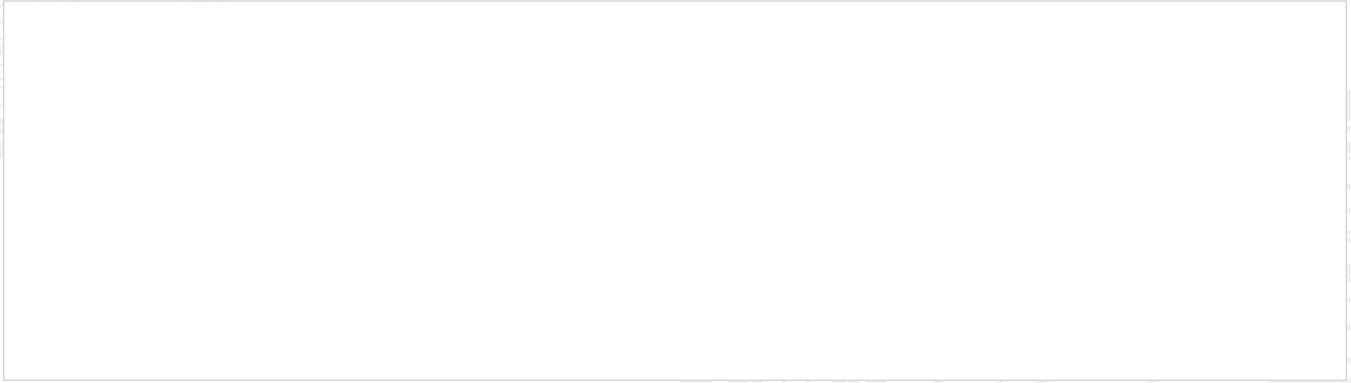
Do not use flat oil or flat alkyd paints, vinyl acetate (PVA) vinyl acrylic, or vinyl acetate-acrylic copolymer paints, oil base transparent or opaque stains.

- **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. Care should be taken in placement of landscape sprinklers so that water will not hit the Armorite® Exterior Trim.
- 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.

PAINT AND COATING RECOMMENDATIONS

- Make sure all sharp edges are eased at least 1/16" radius to allow adequate paint coverage.
- Caulk all penetrations and gaps prior to coating using caulk/sealant that satisfy the requirements set forth in the Caulking and Painting Section. Follow cure rates as specified by the manufacturer.

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Technical
Questions?

