



AG-Series  
**Grain Stain**  
Exterior Semi-Solid Oil Stain

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## Product Data Sheet

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### PRODUCT DESCRIPTION

Grain Stain Semi-Solid Oil Stain is a high quality deep penetrating richly pigmented exterior oil stain designed to protect and enrich the natural beauty of wood. Grain Stain Semi-Solid's unique properties provide greater hiding power than the Semi-Transparent Stain, yet allowing it to penetrate deep into the wood while letting the natural texture of the wood show through. The pigments selected for Grain Stain Semi-Solid will resist the graying effect of the sun's ultra violet rays. Grain Stain Semi-Solid protects the wood with its water-repellent properties, causing water to bead up instead of penetrating the surface, and is mildew resistant.

### TYPICAL USES

Formulated for use on residential and commercial exterior new or bare exterior rough and smooth wood surfaces. Ideal for use on outdoor furniture, exterior siding, fences, shakes and trim.

### BASES & COLORS (tintable with ACS colorant)

AG-0330 Natural 6 – 10 oz/gal

AG-1329 White Base 2 – 6 oz/gal

Ready mixed colors also available

### PHYSICAL PROPERTIES (AG-0330)

Resin Type Linseed Oil

Clean-up Solvent Mineral Spirits

Finish Not Applicable

Solids by Weight 37 %

Solids by Volume 30 %

Recommended Dry Film  
Thickness per Coat Not Applicable

Theoretical Coverage  
@ 1 mil 481 ft<sup>2</sup>/gallon

Practical Coverage at  
Recommended DFT<sup>1</sup> 150 – 350 ft<sup>2</sup>/gallon

Dry Times<sup>2</sup>  
@ 70° F (21° C)  
and 50% R.H. 24 – 36 hours

VOC's 550 grams/liter  
(Range from 544 – 550 depending on color and base)

<sup>1</sup> Spread rates are estimates based on products volume solids and make no allowance for material loss during application. Actual spread rates may vary dependent on applicator experience, surface porosity and texture.

<sup>2</sup> Dry times may vary depending upon temperature, humidity and degree of air movement.

### SPECIFICATIONS

#### Exterior Wood

Self Priming

2 cts Grain Stain Semi-Solid Oil Stain

May be used as a one (1) or two (2) coat system. Two (2) coats are recommended (applied wet on wet) for optimum performance and color uniformity.

For more detailed recommendations, please contact your local Diamond Vogel Sales Representative.

## **SURFACE PREPARATION**

Grain Stain Semi-Solid Oil Stain is a penetrating product and is intended to be applied to wood surfaces that are structurally sound, dry, clean, and free of all dirt, oil, dust, wax, and any other contamination that would interfere with new coating adhesion, including previous paint or varnish films. **The wood grain must be porous and open to allow for penetration of the stain.**

### **New Wood**

For best results, *smooth* wood, such as redwood and cedar, should be allowed to weather sufficiently for the wood grain to open up (approximately 6 months) prior to application of this product. Apply to *rough sawn* wood as soon as possible after installation. Remove mill stamps, pencil marks and other surface imperfections by sanding; remove sanding dust prior to coating.

### **Previously Stained Wood Surfaces**

- *Do not apply Grain Stain Semi-Solid to previously painted or varnished wood.* Remove previous film-type finishes by sanding, scraping or chemical removers. Power washing is recommended to remove deteriorated wood fibers and clean the surface. Power wash using a minimum 2400-psi, 3 g.p.m. to remove contamination. Use of a degreaser is recommended for surfaces contaminated with oil and or grease.
- Excessively gray, weathered wood siding should be cleaned with a restorative wood cleaner. Rinse completely and allow to dry before coating application.

### **Mildew**

Remove by using a solution of one (1) part household bleach to three (3) parts water. Apply to mildewed area and scrub. Allow solution to remain on the surface for 3 to 5 minutes then rinse completely and allow to dry before coating application. Do not add detergents or ammonia to the bleach/water solution.

## **APPLICATION**

- Stir material prior to application. Intermix all containers to ensure color uniformity of all material.
- Equipment must be clean prior to start. Flush airless lines with mineral spirits.
- Apply by brush, roller or spray. A good quality synthetic brush will make application easier. Select a roller cover suited for the texture of the surface to be coated.
- Only airless sprayers are recommended for spray application. Tip sizes of .009 - .013 are recommended. Back brush to insure penetration of the stain.
- Apply the product in full even coats and maintain a wet edge. Apply enough material to saturate without puddling. Do not allow excess material to dry on the surface.
- Two coats are recommended for best results. **The second coat of Grain Stain Semi-Solid must be applied "wet on wet"**. Apply the second coat as soon as the first coat has soaked into the surface.
- The final color will be dependent on the wood species, grain, texture, amount of stain absorbed and method of application. A test area is recommended to preview the end result.
- Do not thin

## **ENVIRONMENTAL VARIABLES**

Minimum surface and air temperature required for application is 45° F (7° C) and at least 5° F (3° C) above the dew point. While this product is not subject to freezing, temperature, humidity and air movement will affect drying. Cold temperatures will greatly increase the dry time. Application at elevated temperatures, wind conditions, and/or low humidity may require special application procedures to achieve proper film formation.

## **CLEAN-UP**

Clean up spills immediately with mineral spirits. Clean tools immediately after use with mineral spirits or turpentine. To avoid spontaneous combustion during temporary storage, soak soiled rags and waste immediately after use in a water-filled, closed metal container. Clean hands immediately with an appropriate hand cleaner. After cleaning, flush spray equipment with mineral spirits to prevent rusting of the equipment.

## **CAUTIONS**

For exterior use only  
Not for use on horizontal surfaces  
Do not apply below 45° F  
Do not take internally  
Use with adequate ventilation  
**KEEP OUT OF REACH OF CHILDREN**

**\*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. Clean up carefully with a HEPA vacuum and 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](http://www.epa.gov/lead).

### Limited Warranty

The technical data and suggestions for use contained in this document are true and correct to the best of our knowledge at the date of issuance. The statements of this document do not constitute a warranty, expressed or implied, as to the performance of these products. Since Diamond Vogel Paints does not control the application of its products, or the condition of the surfaces to which they are applied, Diamond Vogel Paint's liability will under no circumstances exceed replacement of the product.