



TECHNICAL DATA SHEET

Solid Color Acrylic Stain + Sealer

Product code 418XX

Product Description:

Storm Stain Solid Color Acrylic Stain + Sealer w/ Enduradeck Technology is a low sheen finish designed for use on decks and other exposed flat areas as well as vertical siding, fences and railings that are subjected to the rigors of drastic weather and temperature conditions, abrasion, acid rain or snow. This high hiding stain provides maximum protection against water, ultraviolet rays, and general atmospheric contamination. This stain resists cracking, peeling, and blistering and can be used on new wood, previously stained wood, properly pressure treated wood, and composite decking. This stain contains a unique rust inhibitor to retard nail and screw head rusting.

Recommended Use:

Decks, railings and posts, fences, benches, trellis, wood walkways, open porches, wood screening, patios, garden enclosures, outdoor furniture, siding, and Aged Composite Surfaces.

Surface Preparation:

Lead 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 ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. 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 Information Hotline at 1-800-424-LEAD (5323) or log on to www.epa.gov/lead.

All wood must be thoroughly cleaned of Mold, Mildew, Dirt, Grease, Grime, Mill Glaze, Previous Coatings, and any other foreign substances.

Bare/Unfinished Wood must be cleaned with *Storm System 30210 All Surface Cleaner*, fully rinsed, and allowed proper dry time. **Mold & Mildew** should be treated with *Storm System 40210 All Surface Mold & Mildew Stain Remover* and thoroughly rinsed. **Aged & Capped Composite Surfaces** must be cleaned with *Storm System 30210 All Surface Cleaner* and fully dry prior to staining. **Weathered Wood** should be free of all gray/dead wood fibers. This can be achieved by sanding the surface and treating the surface with *Storm System 20410 Wood Restorer*. Use *Storm System 10310 Wood Brightener/Neutralizer* to brighten wood that may darken more than expected, especially cedar and redwood, and to neutralize any remaining cleaner. **Pressure Treated Wood** should be thoroughly scrubbed with *Storm System 30210 All Surface Cleaner*, rinsed clean, and allowed to dry completely prior to finishing. **Mill Glaze** must be removed from the surface by abrasion or be chemically treated to the point where proper penetration and adhesion of coatings can take place. It is not recommended to allow wood with Mill Glaze to weather as the UV destroyed grayed(dead) wood fibers will not promote a sound surface. To remove, a light sanding and/or cleaning with *Storm System 10310 Wood Brightener/Neutralizer*, followed by an extensive rinse is required. A water absorption test patch should always be done to ensure that the mill glaze has been removed from the wood prior to staining. **Previous Coatings:** Prior coatings must be in sound condition prior to coating. Surfaces should be cleaned with *Storm System 30210 All Surface Cleaner*. A small test patch should be done to validate proper adhesion and acceptable color appearance.

Spot Prime wood knots with Storm Primer 52344 Quick Dry Oil Primer to prevent tannin bleed.

After following the recommended cleaning and surface preparation instructions, allow the surface to dry for 48 hours or when wood has achieved a moisture content of 15% or less. Once dry all wood surfaces should be sanded using 80-120 grit sandpaper, and fully cleaned of all dust generated by sanding.

Note: Cedar, Redwood, Cypress, and other woods contain a natural water-soluble ingredient, "tannin", that will show as a reddish-brown stain when it migrates to the surface of damp wood. Should these stains appear, they can be removed by washing with *Storm System 10310 Brightener/Neutralizer* and thoroughly rinsing with clear water.

Product Specifications

Type: Alkyd Modified Acrylic
Exposure: Exterior
Specular Gloss: 15 @ 60° +- 2
Volume Solids: 39% +-2
Solids by Weight: 53% +-2
Vehicle: 49% +-2
Pigment: 51% +-2
Dry Film Thickness: 1.9 mils
Viscosity @ 77°F: 87KU +-5
Maximum VOC: 100 g/L
Flash Pt °F: Non-combustible
Thinner: Water
Clean Up: Soap & Water

Available Colors and Bases:

White – 00
Light Base – 91
Medium Base – 92
Deep Base – 93
Clear Base – 95

Available Package Sizes:

Quart
Gallon
5 Gallon
(Weight per gallon: 8.6 lbs. +-5)

Drying Times:

To touch: 1-2 hours
To Recoat/Light Traffic: 4-6 hours
Full Use: 72 hours
(@ 70-77 °F, 50% R.H.)

Surface Spread Rate:

Smooth: 325-375 s.f./g
Porous: 225-275 s.f./g
(Spray application is 50% of above)

Tools and Equipment:

Brush – Synthetic, Nylon, Polyester
Roller – 3/8" Nap Synthetic Fiber
Airless spray:
Tip Size - .015 to .019
Pressure – 2000 to 2500 psi



Application:

Stir thoroughly before and during application to insure uniform appearance. Material should be intermixed by pouring into a large container and stirring before painting large areas, to insure color uniformity. On bare wood, thin the first coat with approximately one-pint water per gallon, then apply 1 or 2 un-thinned finish coats. Apply evenly with a quality nylon or synthetic brush maintaining a wet edge. Start at the end of boards and go along surfaces to a break point to avoid lapping. If spraying, back brush immediately.

Drying time note: Dries to touch in 4-6 hours. Allow 12 hours for light foot traffic, and 72 hours before adding furniture back onto deck. Dry times are based on temperatures of 70-77 °F, with 50% R.H. Cooler temps and high levels of humidity can drastically affect dry times.

Architectural Specifications:

Decks, Fences, Siding, and other vertical surfaces

Unfinished wood (where extractive bleeding may occur)

1 coat Storm Stain Alkyd Primer - 523XX

1-2 coats Storm Stain Solid Color Acrylic Stain + Sealer – 418XX

Note: In place Alkyd Primer, apply 1 coat of Solid Color Acrylic Stain + Sealer – 418XX thinned with 10-20% water

Previously stained decks and fences

1-2 coats Storm Stain Solid Color Acrylic Stain + Sealer – 418XX

For Aged Composite Decking

1-2 coat Storm Stain Solid Color Acrylic Stain + Sealer – 418XX

For Capped Composite Decking

1 coat Storm Stain Alkyd Primer – 523xx or Storm Stain Acrylic Primer – 543xx

1-2 coats of Storm Stain Solid Color Acrylic Stain + Sealer - 418xx

Limitations:

Avoid applying light color stains over dark stains or over creosote base stains. Air and surface temperature must be 35° F or above during application and drying time. Do not apply to smooth side clapboards without thorough sanding, weathering or pressure washing. Do not apply directly to capped composite decking. FOR EXTERIOR USE ONLY

Safety Information:

CAUTION! KEEP OUT OF REACH OF CHILDREN. Do not take internally. Close container after each use.

DISPOSAL: Dispose of contents in accordance with applicable local/ national/regional/international regulations.

KEEP OUT OF REACH OF CHILDREN. PROTECT FROM FREEZING
Refer to Safety Data Sheet for additional health and safety information.