



# PRODUCT DATA SHEET

## Storm Shield®

SS601 Cedartone  
SS602 Redwood

SS615 Honeytone  
SS616 Rustic Oak

DESCRIPTION	CHARACTERISTICS	SPECIFICATIONS
<p><b>STORM SHIELD™</b> is a unique combination of resins and pigments that enhances the natural beauty and warmth of old and new wood. The 100% acrylic system makes it user friendly, environmentally safe and easy to clean up with soap and water. <b>STORM SHIELD™</b> provides superior water repellency and maximum protection from premature loss of color, surface mildew and water absorption. Powerful ultraviolet light screening chemicals reduces unsightly graying and loss of natural color. <b>STORM SHIELD™</b> is available in SS601 Cedartone, SS602 Redwood, SS615 Honeytone and SS616 Rustic Oak. Colors may be intermixed.</p> <p><b>Product Advantages:</b></p> <ul style="list-style-type: none"> <li>➤ One Day System (24 hours)</li> <li>➤ Excellent for Log Homes, Fences, Decks, Siding, Play Equipment, and Docks</li> <li>➤ Superior Water Repellency</li> <li>➤ Maximum Protection</li> <li>➤ Easy Soap &amp; Water Clean-up</li> <li>➤ Environmentally Safe</li> <li>➤ Excellent for Pressure Treated Wood</li> <li>➤ May be Applied Over Damp Wood</li> <li>➤ Applicator Friendly</li> <li>➤ Easy to Maintain</li> <li>➤ Powerful Ultraviolet Light Screening Chemicals</li> <li>➤ Prevents Unsightly Graying and Loss of Natural Color</li> </ul>	<p><b>Viscosity:</b> 18-22 #2 Zahn</p> <p><b>Weight Solids:</b> 26.83 -27.76%</p> <p><b>Volume Solids:</b> 23.12 – 23.68%</p> <p><b>Weight/Gallon:</b> 8.82 -9.00 lbs/gal</p> <p><b>VOC (Reg/coating):</b> 2.048-2.094 lbs per gal or 245.8-251.3 g/l</p> <p><b>VOC (Act./material):</b> .63-.647 lbs per gal or 75.6-77.6 g/l</p> <p><b>HAPs:</b> 0-0.025</p> <p><b>Coverage:</b> 374.65 Sq. Ft. per gallon at one mil dry film thickness</p> <p><b>Dry Time:</b> 1 hour to touch 6 hours- Light Foot Traffic 24 hours- Full Service @ 50% RH and 77° F</p> <p><i>(Note: relative humidity and temperature will effect dry time)</i></p> <p><i>Note: These numbers represent actual control values on a smooth, sanded substrate. Spray techniques, texture, and sealing as well as film thickness may give different results on actual work, but they may be used for comparison. To the best of our knowledge, the above technical data is true and accurate at the date of issuance but is subject to change without prior notice.</i></p>	<p><b>Surface Preparation:</b> See next page.</p>

The following supersedes any provision contained in the forms, letters and papers of your company. This product is designed and intended for professional application only. All products should be thoroughly tested under application conditions prior to use. The information contained herein is believed to be reliable. **HOWEVER, GEMINI MAKES NO WARRANTY CONCERNING THIS PRODUCT, WHETHER EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** UNDER NO CIRCUMSTANCES SHALL GEMINI BE LIABLE FOR SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR ANY OTHER DAMAGES FROM ALLEGED NEGLIGENCE, BREACH OF WARRANTY, STRICT LIABILITY, OR ANY OTHER LEGAL THEORY, ARISING OUT OF THE USE OR HANDLING OF THIS PRODUCT. THE SOLE REMEDY OF THE BUYER AND THE SOLE LIABILITY OF GEMINI FOR ANY CLAIMS SHALL BE LIMITED TO THE BUYER'S PURCHASE PRICE OF THE PRODUCT WHICH IS THE SUBJECT OF THE CLAIM OR THE AMOUNT ACTUALLY PAID FOR SUCH PRODUCT, WHICHEVER IS LESS. TECHNICAL ADVICE FURNISHED BY GEMINI SHALL NOT CONSTITUTE AN EXPRESS WARRANTY, WHICH IS EXPRESSLY DISCLAIMED. ALL TECHNICAL ADVICE GIVEN IS ACCEPTED AT THE RISK OF THE BUYER.

**CAUTION:** DANGER! FLAMMABLE! VAPORS MAY CAUSE FLASH FIRE. VAPOR HARMFUL. HARMFUL OR FATAL IF SWALLOWED. INJURIOUS TO EYES. KEEP OUT OF THE REACH OF CHILDREN! BEFORE using this product it is essential that the "Material Safety Data Sheet" describing the product as well as the "Product Label" be reviewed. If your company does not have such information or has any questions, contact the manufacturer.

Date: Dec 08

## STEP 1: SURFACE PREPARATION

**All wood surfaces.** To ensure optimum performance from **STORM SHIELD™** the following procedures should be followed in their entirety. Proper preparation and application will ensure adequate penetration, adhesion and coloration. All surfaces must be free of dirt, dust, grease, mildew or other contaminants. Before using any chemicals around plants or vegetation, care should be taken to water plants and the ground around them thoroughly so absorption of chemicals is less likely. To minimize any possible damage to plants, shrubbery and grass, the area should be covered with plastic during all cleaning and application procedures. Keep **STORM SHIELD™** off all glass and concrete surfaces.

**New wood:** All new wood, rough sawn or smooth, that has been installed outdoors and exposed to weather conditions for less than 120 days may not accept product adequately. Mill glaze and grain compression from milling equipment, excess tannins, sap and natural residues form a barrier, which limits penetration in new wood. To ensure your wood surface is ready to receive the penetrating stain, apply a small amount of water in several places on the surface you wish to treat. If water stays on the surface and does not penetrate, thoroughly wet the surface by rain or tap water 8 times or more to open wood grain. Repeat the water test. Continue this process until the surface absorbs water immediately. Your wood is now ready to treat. Although **STORM SHIELD™** may be applied to damp surfaces, treating new wet pressure treated wood may cause pressure treatment salts to exude to the surface. Allow wet pressure treated wood to age a minimum of 8-12 weeks after installation outdoors. **STORM SHIELD™** may be applied as soon as the surface feels dry and there is not standing water from cleaning procedures or rain.

**Old wood:** Unprotected old wood is typically discolored to various shades of gray to black. This is due to mold, mildew and algae contamination and ultraviolet light attack on the wood surface. Remove contamination with GEMINI WOOD BRIGHTENER PLUS following all label directions or a solution of 1 part household bleach and 1 part water. Always rinse surface thoroughly after cleaning. Pressure washing is recommended for best results. **STORM SHIELD™** may be applied as soon as the surface feels dry and there is no standing water from cleaning procedures or rain.

**Previously stained wood:** **STORM SHIELD™** is designed for application on clean wood surfaces. Remove old stains and coatings with GEMINI INJECTABLE SAFE STRIP OR GEMINI SOLID STRIP according to label directions. Chemical stripping may be required in some cases. When applying transparent finishes, it is imperative that the cleaned surface is uniform in appearance. Applying this product over a previously sealed surface may result in non-uniform appearance and poor adhesion if surface preparation is inadequate. **STORM SHIELD™** performs best if old finish is completely removed. To ensure your wood surface is ready to receive **STORM SHIELD™**, apply a small amount of water in several places on the surface you wish to treat. If water stays on the surface and does not penetrate quickly, repeat the stripping procedure. Repeat the water test. Continue this process until the surface absorbs water immediately.

## STEP 2: BEFORE YOU APPLY

Due to variations in wood color and porosity, finish color may vary from desired result. Check color by applying sample on the surface in an inconspicuous area to determine desired effect. Because horizontal surfaces are subject to harsher conditions (foot traffic, standing water, deck furniture, spills, etc.) than vertical surfaces, we cannot guarantee color retention and recommend maintenance coats as needed. Before applying **STORM SHIELD™** clear the surface of all dust, dirt, debris and standing water. **Mix thoroughly before and occasionally during use. Do not tint or thin this product.** When using multiple containers of the same color, "box" or mix all containers into 1 larger container to ensure uniform color.

## STEP 3: APPLICATION PROCEDURES

**All wood surfaces:** Avoid application in direct sunlight to hot surfaces (produces lighter color). If unavoidable pre-wet the surface with water and apply immediately after surface has no standing water. Apply when surface temperature is between 50° - 85° F.

**Method of application:** Apply with nylon bristle brush, paint pad, short nap roller or spray (pump up style or airless). When spraying, follow the spray application with a back-brush, roller or paint pad to even out runs, drips, puddles and uneven application.

### Vertical Surfaces:

Always apply product laterally in 3-4 foot sections while maintaining a wet edge. Immediately wipe drips and runs from bare surface with a wet rag or sponge. This is essential to avoid lapping on the next pass over the untreated surface below. A second coat can be applied **immediately** after the surface feels dry to touch. **Do not** apply additional stain that will not absorb into the wood. Do not allow the stain to build and form a surface film.

### Horizontal Surfaces:

Apply **STORM SHIELD™** to vertical railings before the deck surface. Cover the deck surface with plastic to catch any runs or drips. Do not allow product to puddle. In order to avoid lap marks; maintain a wet edge by coating boards from one end to the other. Flat surfaces are easily controlled when spray application is followed immediately by backrolling, brushing or wiping with an applicator pad. This procedure assures that differences in wood porosity are subjected to adequate amounts of product. A second coat should be applied **immediately** after the surface feels dry to touch. **Do not** apply additional stain that will not absorb into the wood. Do not allow the stain to build and form a surface film.

**Spread rate:** NEW WOOD – 250-400 sq. ft./gal. per coat. OLD WOOD 200-300 sq.ft./gal. per coat. Rate will vary depending on wood porosity. A two-coat application always yields the best results particularly on horizontal surfaces. Do not apply additional stain that will not absorb into the wood. Do not allow the stain to build and form a surface film.

#### **STEP 4: COMPLETION**

**Dry time:** 1-6 hours: dry to touch. 1 hour = to touch, 6 hours = Foot Traffic, 24 hours = Full Service. Surface is also ready for light foot traffic at that time. Furniture may be moved back into place after 4-6 hours depending on weather conditions and full service. Do not apply if rain is possible within 24 hours of application.

**Thinning and Clean up:** No thinning required. Clean up with soap and warm water.

#### **KEEP OUT OF REACH OF CHILDREN PROTECT FROM FREEZING FOR EXTERIOR USE ONLY**

**BEFORE USING THIS PRODUCT** it is essential that you consult the "Material Safety Data Sheet" describing the product as well as known possible hazards. If you do not have one, ask your sales representative to provide one for you.

**Protection:** May cause eye and skin irritation. Avoid contact with eyes and prolonged or repeated contact with skin. Wear eye protection and glove during application. Do not breathe spray mist. A dust/particulate mask may be worn when spraying.

**First Aid:** If affected by inhalation of spray mist or vapors, leave area to obtain fresh air. In case of eye contact, flush immediately with plenty of water for at least 15 minutes. If symptoms persist, contact a physician. For skin, wash thoroughly with soap and water. In case of ingestion, **DO NOT INDUCE VOMITING.** Contact a physician immediately.

**Spills:** In case of spill, immediately absorb with inert material and dispose of according to local disposal requirements.

**Storage:** **PROTECT FROM FREEZING.** Store this product between 50°F - 85°F. Close container after each use.

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**Gemini Guarantee-** The total protection Gemini offers is backed by a guarantee that the **Storm Shield™** finish will repel water and protect against wood defacement for 4 years on vertical wood surfaces and 2 years on horizontal wood surfaces.

**Limited Warranty** – This warranty applies to product applied to wood surfaces in accordance with directions on the product label. Call 1-800-262-5710 if there are any questions about the directions of this product. The warranty does not apply to conditions caused by use of other materials or failure to follow directions provided with this product. The sole remedy of the buyer and the sole liability of Gemini for any claims shall be limited to the buyers purchase price of the product which is the subject of the claim or the amount actually paid for such product, whichever is less. Labor is not included in any. To obtain a written remedy, write to Gemini, 2300 Holloway Drive, El Reno, Oklahoma 73036 immediately upon learning of the condition believed to be caused by failure to comply with this warranty.