21POLYPLUS™

THE ULTIMATE MARINE PILE POLYMER COATING
APPLICATION INSTRUCTIONS (Revised 6/17/11)

Thank you for your recent purchase of 21POLYPLUS™. We at Gulf Synthetics, LLC, hope that your experience with this product is a successful one. It is our goal to deliver the most advanced and state-of-the-art polymer coatings. We suggest that you take a moment to read these helpful instructions to insure a protective application that will last for years to come. Thank you again for your confidence in our products. Should you have additional questions, please visit our website at www.gulfsynthetics.com

COVERAGE: Each kit of 21POLYPLUS™ is packaged in a five-gallon container for easy mixing. The kit contains two parts: (1) liquid resin and (2) dry chemistry. YOU ADD two quarts of exterior latex or acrylic paint (Semi-Gloss, or High Gloss). With two coats applied, the coverage will be approximately 160-200 square feet per kit depending on surface porosity and texture.

IMPORTANT NOTE: This product is designed to produce results using the exact proportions provided in the kit and in compliance with the instructions written below. Variance from these proportions, either more or less, of the three ingredients mentioned above will not be warranted by the manufacturer.

SURFACE PREPARATION: For best results, we recommend the surface to be **CLEAN, DRY, DULL, and of MODERATE TEMPERATURE.**

CLEAN: Surfaces must be thoroughly clean, free of dirt, sealer or waxes, peeling paint, mildew, tar, mill glaze, efflorescence, grease or oily substances. Clean the surface by power washing, and allow substrate to dry completely for a minimum of 48 hours.

DRY: The surface needs to be thoroughly dry. Test wood using a common moisture meter. No more than a 20% moisture content is recommended. For exterior projects, do not apply if rain is predicted in the next 30 hours.

DULL: Glossy, painted, or sealed surfaces must be dulled by sanding, to produce a profile for the 21POLYPLUS™ coating to bond to. After sanding, clean surface of any loose debris.

MODERATE TEMPERATURE: Ideal temperature for application should be 50-85 degrees F. Do not apply if ambient temperature or the surface temperature is <50 degrees or >85 degrees F. If temperature is less than 50 degrees F this product will cure too slowly or maybe not at all. If temperatures exceed 85 degrees F, this coating will set too quickly.

PREPPING CRACKS AND NAIL/SCREW HEADS (WHERE APPLICABLE):
21POLYPLUSTM is quite thick and will easily fill most small cracks. If existing cracks are excessive (over 3/8" deep and wide), use a waterproof caulk to infill before coating with 21POLYPLUSTM. For best results, countersink rusting nail or screw heads and apply caulk to infill. Do not smear caulking on adjacent wood surface. Allow caulk to dry before applying 21POLYPLUSTM. See manufacturer's instructions for the proper application of these materials.

APPLICATION PROCEDURE FOR ONE KIT:

1. **Remove both wet and dry chemistry** from container.
2. **Empty white liquid resin** into container.
3. **Add two quarts of exterior latex or acrylic paint** (any color) to resin. **Mix briskly** for **one minute**.
4. **Slowly add dry chemistry** while **mixing briskly with drill mixer for five minutes**. Stir mixture to loosen up any dry portion from the bottom of container. Dry chemistry components should break down completely and mix should be smooth and viscous. The coating is now activated and should be used immediately.
5. **Do not alter the chemistry of the product in any way by adding or subtracting material or by adding other ingredients (DO NOT ADD WATER).**
6. **If you are working on a large area with more than one kit**, mix each kit separately and then blend or "box" together for color consistency.
7. **FOR COATING PILES:** Using a heavy nap roller or brush, fill in checks and allow to dry. Then apply an even, fairly liberal base coat. Allow to dry. Apply top coat. Thickness should not be less than 10 mils. Additional coats may be applied to build mil thickness if desired. **IMPORTANT! Coated components that will be submerged require the following 48-hour CURE PROCESS: After coating, allow parts to sit and dry for 12 hours. Using a water hose, wet dried parts thoroughly to activate organic additives. Allow parts to sit and dry for 12 more hours before installation.**
8. **Allow 21POLYPLUSTM to dry** to the touch, usually about one hour under normal temperature and humidity. However, if it is very cool or very humid it could take longer and conversely; if it is warmer and dryer, it could take less time to dry.
9. **For best coverage, use a 3/8" nap paint roller and roll out the first coat** perpendicular to (against) the grain. This allows the coating to work into the cracks and splinters, filling them up and locking them down. Allow to dry completely before applying the second coat.
10. **Apply second coat** in the opposite direction or parallel with the grain of the wood. The second coat is key to attaining the proper texture. If a more aggressive non-slip texture is desired, use a one-inch nap roller for the second coat. **Be consistent in your technique.** Allow to dry.
11. Additional coats may be applied to build the final mil thickness, if desired.

CLEAN UP AND STORAGE: Clean tools with water. Never dispose of excess coating while still in liquid state. Dispose of with accordance to all local, state, and federal guidelines. Keep a lid on any surplus 21POLYPLUSTM and store in a cool, dark and dry space. Activated coatings will have an approximate 14-day pot life. Buckets should be cleaned and re-used or recycled.