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## **PHASECOAT®UFR CLEAR AND BLACK**

Correct Use, Cleaning and Application Instructions 04/26/07

### **1.0 CORRECT USE and CLEANING PRACTICES**

- 1.1 PHASECOAT®UFR is a FOUL-RELEASE bottom coating containing no copper, biocides, pesticides, and it is low VOC (below Coast Guard), with a targeted surface adhesion force of 5 psi.**
- 1.2 Vessels that apply PHASECOAT®UFR will REQUIRES ROUTINE CLEANING EVERY 3-4 WEEKS. DEPENDING ON THE VESSEL USE PROFILE (15-20 knots several hours per week) SOME SELF-CLEANING MAY OCCUR AS THE VESSEL MOVES THROUGH THE WATER. THIS MAY EXTEND THE INTERVALS BETWEEN MANUAL CLEANING BUT ROUTINE MANUAL CLEANING WILL STILL BE NECESSARY. This is the VESSEL OWNER/OPERATORS RESPONSIBILITY. The PHASECOAT® WARRANTY, requiring application by a CERTIFIED PHASECOAT APPLICATOR, will not be valid if correct use and cleaning instructions are not followed.**
- 1.3 Cleaning may be accomplished with a soft cloth or tool or power washing. Do not use an abrasive scotch brite like material.**
- 1.4 PHASECOAT® performance generally improves after cleaning.**
- 1.5 PHASECOAT®UFR can be used on out-drives, trim tabs, and props.**
- 1.6 PHASECOAT® UFR is a moisture cured coating and requires 7-10 days vessel immersion to reach its full hardness. Vessel may be placed in water one day after coating and used during curing period.**
- Alert 1.7 BOATYARD OPERATORS SHOULD SECURE COATED, SLICK VESSELS TO LIFTING DEVICES (hoists/lifts) BEFORE MOVING.**

### **2.0 PRODUCT STORAGE AND HANDLING**

- 2.1 Store and use materials between 45°F and 110°F**
- 2.2 Store materials in their original sealed containers. Do not open containers until they are to be used. This resin is moisture cured and opening the containers can reduce the material's shelf life.**
- 2.3 The coating materials must be used within the manufacturers published shelf life of one year. Manufacturing date posted on can.**

### **3.0 SURFACE PREPARATION**

- 3.1 Power washing and light sanding with 80 grit sandpaper or less aggressive if required by hull warranty. De-waxing is critical on new boats.**
- 3.2 Remove all sanding residue with air, wash down with water and dry, or wipe down with denatured alcohol or acetone.**
- 3.3 Surfaces that are not to be coated should be masked off so that overspray, drips, or spills do not contact these surfaces.**
- 3.4 Metal components (out-drives, trim tabs, props) must be cleaned thoroughly with an acid wash or sanding/sand blasting then the coating can be applied directly over the clean metal or a desired metal primer.**

#### 4.0 APPLICATION

- 4.1 Apply PHASECOAT® UFR in one or two coats. **Allow full tack of first coat which usually occurs in 45-90 minutes depending on temperature. PHASECOAT® UFR will not stick to itself once it has fully tacked over (temperature and humidity dependent) which usually occurs in 2-3 hours. Keep lids on open cans to extend pot life and product functionality. Always remix partial cans by flipping or stirring.**
- 4.2 Optimum film thickness with one coat 4-5 mils wet and with two coats 10-12 mils wet. Expect approximately 25% shrinkage in film thickness between wet and dry coat fully cured.
- 4.3 PHASECOAT® UFR CLEAR is popular to apply as a one coat system over a new gel coat or colored vessel bottom. A second coat can be added for durability but there will be no change in functionality.
- 4.4 PHASECOAT® UFR BLACK contains a small amount of carbon black and absolutely requires two coats for cover. First coat will likely not cover and do not overwork trying to get cover.
- 4.5 Airless or air spray equipment desirable for large jobs and works well, providing a smooth finish on all size vessels. Application with fine foam rollers remains the most popular application method. Foam brushes can be used in tight spots.
- 4.6 PHASECOAT® UFR CLEAR and BLACK should be mixed thoroughly, **then 15% acetone should be added as thinner. This should be a standard practice for rolling and spraying.**

#### 5.0 EQUIPMENT and PERSONAL PROTECTION

- 5.1 Airless/Air pressure spray equipment. Rollers: fine poly-foam 1/8-1/4<sup>th</sup> nap.
- 5.2 Personal Protection Equipment Recommended: Normal paint spray fiber mask and chemical resistant latex gloves.

#### 6.0 EQUIPMENT SET-UP/CLEAN-UP PROCEDURE CHECKLIST

- 6.1 Inspect all spray parts and components. Ensure that the spray guns are clean and in proper working condition. Change or clean filters prior to use. Tip size selection is very important to get effective atomization.
- 6.2 Position coating containers away from the paint pump to prevent relief valve moisture from contaminating the product.
- 6.3 Use isopropyl alcohol, denatured alcohol, or acetone as clean-up solvent. Do not allow unused materials to remain in the hoses or spray equipment.
- 6.4 If applying by roller, use fresh rollers and trays for second coat.
- 6.5 All surplus mixed materials and empty containers can be discarded as non-hazardous waste in accordance with appropriate local and federal regulations.

#### 7.0 SAFETY

- 7.1 Before starting the coating application, it is recommended that the operator read all the available safety data including, but not limited to, the material safety data sheet and the product data sheet.
- 7.2 The resin and cleaning solvents are all flammable. Keep them away from open flames and spark sources.
- 7.3 All electrical equipment shall be properly grounded per OSHA regulations.
- 7.4 Refer to OSHA regulation 29 CFR 1910 pertaining to work in confined areas.
- 7.5 Avoid inhalation of the coating vapors and spray and contact to skin and eyes.

**Questions contact Brad Lienhart 919-522-0722 or  
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