

TotalBoat TotalProtect 2-Part High Build Epoxy Primer - Tech Data Sheet

SUPPORT PRODUCTS:

Reducer: TotalBoat Special Brushing Thinner 100 (xylene can also be used for spraying)
Cleanup: TotalBoat Special Brushing Thinner 100 or TotalBoat Dewaxer & Surface Prep
Related : TotalBoat Aluminum Boat Etch Wash (for use on aluminum before applying TotalProtect)

COMPATIBLE SUBSTRATES:

Wood: Yes
Fiberglass: Yes
Metals: Yes

Previously Painted Surfaces: Yes (not over 1-part paints). **Always test the previous paint to verify it is not a 1-component paint.**

SURFACE PREPARATION:

Fiberglass or Wood * Remove all surface contaminants, including water, dust, wax, grease, oil, surface blush, etc.
 * Wipe clean with a lint-free cheesecloth or rag dampened with TotalBoat Dewaxer & Surface Prep.
 * Abrade the surface lightly with 80-grit sandpaper.
 * Wipe clean with a lint-free cheesecloth or rag dampened with TotalBoat Dewaxer & Surface Prep.
 * Apply TotalProtect.

Steel, Bronze, Lead, Iron * Sand or blast the surface to bright metal.
 * Remove all sanding or blasting residue (sweep, brush, or vacuum).
 * Wipe clean with a lint-free cheesecloth or rag dampened with TotalBoat Dewaxer & Surface Prep.
 * Apply primer within 1 hour of metal preparation. For proper adhesion, metals must be shiny and clean.
 ** When applying on lead, TotalProtect must be applied immediately after grinding to shiny metal, before the surface oxidizes and turns dull.

Aluminum * Sand the surface to bare, shiny metal with 80-grit sandpaper (or grind until shiny).
 * Remove all sanding or blasting residue (sweep, brush, or vacuum).
 * Wipe clean with a clean, lint-free, cotton rag dampened with TotalBoat Dewaxer & Surface Prep. Allow the solvent to evaporate.
 * For best adhesion, use TotalBoat Aluminum Boat Etch Wash, as directed, immediately after sanding/grinding.
 * Dry the metal completely.
 * Apply primer within 1 hour of metal preparation. If the metal has time to oxidize to a dull finish, TotalProtect will not adhere properly.

Previously Painted Surfaces: * Always verify that you are not attempting to overcoat a 1-component paint.
 * Wipe clean with a lint-free cheesecloth or rag dampened with TotalBoat Dewaxer & Surface Prep.
 * Sand the surface with 80-grit sandpaper. Remove all sanding residue.
 * Wipe clean with a lint-free cheesecloth or rag dampened with TotalBoat Special Brushing Thinner 100.
 * Apply TotalProtect.

TotalProtect over TotalProtect: * Wash with soap and water.
 * Rinse with fresh water and allow to dry.
 * Sand the surface with 80-grit sandpaper.
 * Wipe clean with a lint-free cheesecloth or rag dampened with TotalBoat Dewaxer & Surface Prep.
 * Apply TotalProtect.

Antifouling over TotalProtect: * WATER-BASED ANTIFOULING PAINT: TotalProtect must be fully cured and sanded before applying any water-based antifouling paint (including but not limited to TotalBoat JD Select, Pettit Hydrocoat, Interlux Bottomkote Aqua).
 * SOLVENT-BASED ANTIFOULING PAINT: The "Thumbprint" method is the best for adhesion, and saves time. After applying the last layer of TotalProtect, wait until it does not stick to your thumb, but you can make a thumbprint, or within 7 hours of applying TotalProtect you are within the "overcoat window"—apply antifouling paint. If this window is missed, the surface must be sanded before applying paint.
 * TEFLON™ OR VINYL PAINTS: When using Teflon or vinyl-based racing antifouling paints, TotalProtect must be fully cured and sanded before applying antifouling paint.
 ▶ Use the "Thumbprint" method. Touch TotalProtect film with your thumb.
 * If TotalProtect does not stick to your thumb, but you can make a thumbprint, you are within the "overcoat window". Apply antifouling paint.
 * If TotalProtect sticks to your thumb, it is too soon to apply antifouling paint.
 * If you can't leave a thumbprint, you have missed the overcoat window. Sand with 80-grit sandpaper or apply another coat of TotalProtect. Use the "Thumbprint" method again.

APPLICATION:

MIXING: 1. The Base and Activator must each be shaken or stirred **thoroughly** prior to mixing.
 2. Mix TotalProtect properly in a 3:1 mix ratio by volume. If the whole container will be mixed at one time, simply pour the full can of Activator into the Base can and stir until both components are mixed thoroughly.
Induction Period: After mixing thoroughly, allow a 20-minute induction period before any reduction and application.
 3. Reduce with TotalBoat Special Brushing Thinner 100, as needed (10% maximum).
 4. Apply only when rain, dew, and temperature conditions will not affect application or drying.
 5. Apply TotalProtect.

Overcoating with TotalProtect: Recoat TotalProtect within 3-48 hours of the previous application. If the 48-hour window is missed, sand with 80-grit sandpaper, and wipe the surface clean with a clean, lint-free cotton rag wetted with TotalBoat Special Brushing Thinner 100 or TotalBoat Dewaxer & Surface Prep, and allow the solvent to evaporate completely. Recoat with TotalProtect.

Overcoating with Antifouling Paint: For best adhesion, use the "Thumbprint" method, as mentioned above. Overcoat with antifouling paint within 5-7 hours @ 75°F. If the 7-hour window is missed, sand with 80-grit sandpaper, and wipe the surface clean with TotalBoat Special Brushing Thinner 100 or TotalBoat Dewaxer & Surface Prep. Allow the solvent wipe to evaporate completely. Overcoat with antifouling paint or recoat with TotalProtect.

IMPORTANT: Application of antifouling paint over TotalProtect is critical.

APPLICATION DATA:

Application Method: Brush, Roll, or Spray
Number of Coats: Dependent on application method:
 Chip brush: 4-5 coats
 1/8" roller cover: 6-7 coats
 1/4" roller cover: 5 coats
 3/8" roller cover: 4 coats
 Spray: 4-5 coats

Film Thickness (per Coat): 2 mils dry (10 mils total)
Pot Life: 5 hours @ 75°F
Application Temperature: 50-95°F (0-85% RH)
Recommended Finish: Ablative antifouling paint
Dry Time "to Touch": 2 hours @ 75°F
Dry Time "to Recoat" with more TotalProtect: 3-48 hours @ 75°F (TotalProtect over TotalProtect)
Dry Time to Overcoat with Antifouling Paint (Solvent-Based Only): Within 5-7 hours @ 75°F
 ** See above for water-based, Teflon, or vinyl-based paints **
Shelf Life: 24 months (minimum)

PHYSICAL DATA:

Vehicle Type: Epoxy resin
Reducer (Optional - Brush or Spray): TotalBoat Special Brushing Thinner 100 (xylene can also be used for spray application)
 ** A maximum of 10% reducer can be added **

Finish: Matte
Color: Gray or White
Components: 2 (Base and Activator)
Mix Ratio (by Volume): 3:1 (3 parts base:1 part activator)
Solids (by Weight) +/- 2%: 50%
Theoretical Coverage (sq ft/gal): 400 @ 2 mils dry (not accounting for waste)

Units of Measure: Quart Kit: 3/4 quart of Base, 1/2 pint of Activator
 Gallon Kit: 3/4 gallon of Base, 1 quart of Activator

VOC Content (g/L): < 303
Viscosity @ 75°F (KU): 70-80
Weight (lbs/gal): 11

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