Super Bond Resin Primer

Product Features

Description
F2 OptiProp Super Bond Resin Primer is a solvent-free, two-component (2K) primer/sealer with medium viscosity and damp-tolerant curing, developed for the F2 OptiProp Advanced Fouling Release system.

It lays down a high-bond primer layer on stainless steel, bronze, NiBrAl, and aluminium prior to F2 OptiProp Tie Coat. Formulated to work in the presence of water and to cure at low ambient temperatures.

Supplied pigmented light bronze to provide a visual guide for application uniformity, film build, and coverage.

Recommended Use
Use as the first coat on propellers and underwater running gear at new build or during maintenance/repair, priming stainless steel, bronze, NiBrAl, and aluminium prior to application of the F2 OptiProp Tie Coat. Apply to properly prepared metal to seal the substrate and establish a high-bond base for the F2 OptiProp system.

Composition
A solvent-free, "super-bond" underwater primer system engineered for high adhesion. The formulation is bio-based, made from plant-derived raw materials, and is environmentally responsible.

Product Data

Color
Light Brown

Finish
High gloss

Solid Volume
99,8 %

Recommended Layer Thickness
100 microns (wet and dry)

Theoretical Coverage
10m^2 per liter

Density
1.12 g/cm^3 (BASE)
1.02 g/cm^3 (HARDENER)

Available Packaging
3x 250ml Kit
(other sizes upon request)

Product Safety

Flash Point	approx. 400°C
Viscosity (mPas)	700-1200
VOC-Content	< 0,3 g/L (EPA-Method 24)

Safety Precautions
Application should be carried out in accordance with the instructions on this data sheet, the safety data sheet, and the container labels. National occupational health and safety regulations must be observed.

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Surface Preparation

Bare metal

- Remove all marine growth (e.g., barnacles, tube worms). If required, acid-wash, then rinse and dry.
- Remove or mask anodes (masking tape) to protect them.
- Mechanically abrade to bright, uniform metal using a 4" stripping disc on an angle grinder or drill to remove hard surface contamination. Do not alter the propeller profile.
- Blow off or wipe away dust and residues.

Degreasing & surface conditioning

- PPE: Wear chemical-resistant gloves and eye protection.
- Conditions: Substrate and ambient temperature 5–35°C; surfaces must be clean and dry. Ensure no rain or condensation occurs during application.
- With the F2 Preparation Fluid, wet the first F2 cloth and thoroughly wipe all metal to lift any remaining oils/contaminants.
- Immediately wipe dry with the second clean F2 cloth until the surface is squeaky-clean.
- After cleaning, do not touch the metal with bare hands (skin oils will contaminate the surface). Keep the surface grease-free until priming.

Application

Mixing Ratio
BASE 150:100 HARDENER by weight
Stir the Base, add Activator and mix well. Allow mixed product to rest for several minutes before use to allow air bubbles to escape.

Pot Life
30 minutes (at 20°C)

Thinner
Do not dilute

Application Method
Brush or roller (felt or foam roller)

Application Conditions
Air temperature must be above 5°C during application and curing. Surface temperature must be at least 3°C above the dew point. Relative humidity should be below 90% to prevent condensation during application and drying.

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Application Notes

- Brush apply one single coat to all propeller/running-gear surfaces, using a laying off technique.
- Target 100 µm wet film. Do not over-apply; excess material may run/sag.
- After application, allow to cure usually 3 hours at 20°C (unitl touch-dry) before overcoating with F2 OptiProp Tie Coat.

Disposal

Excess material and empty containers must be disposed of in accordance with regulations.

Drying & Overcoating

Drying Time

For a 100-micron dry film thickness under standard conditions

Surface Temperature	10°C	20°C
Touch Dry	4 hours	3 hours
Minimum Overcoating Interval	6 hours	4 hours
Maximum Overcoating Interval	24 hours	24 hours
Full Chemical Cure		3 days

Storage

Storage Conditions

Store cool and dry (5–10°C).
Stir thoroughly before use.

Shelf Life

Unopened containers: 12 months.

Ocean Coatings Ltd
NetPark Plexus, Sedgefield, Co Durham TS21 3FD, UK
TEL: +4433 3344 1760, MAIL: info@ocean-coatings.com