

EcoLine® 3690 Oil Based Temporary Coating

DESCRIPTION

EcoLine® 3690 is a biobased ready to use temporary coating designed for severe marine and high humidity conditions. Based on canola oil, EcoLine® 3690 contains 72% USDA certified biobased content and is part of the USDA BioPreferred® Program – Mandatory Federal Purchasing Initiative.

EcoLine® 3690 provides multi-metal corrosion protection and is temperature stable to 180 °F (82 °C). It leaves behind an oily protective film that does not dry.

PACKAGING & STORAGE

EcoLine® 3690 is available in 5 gallon (19 L) pails, 55 gallon (208 L) metal drums, liquid totes, and bulk.

To ensure best product performance, store in original packaging, indoors, and out of direct sunlight at 40-100 °F (4-38 °C).

Shelf life: 2 years



CHARACTERISTICS/TECHNICAL DATA

| | |
|------------------------------|---|
| Volume Solids | 95-100% |
| Gloss (ASTM D523) | NA |
| VOCs (ASTM D3960) | 0.1 lbs/gal (13 g/L) |
| Viscosity | 50-70 sec #3 Zahn Cup, 500-2000 CPS @ 104 °F (40 °C) |
| Pencil Hardness (ASTM D3363) | NA |
| Spreading Rate | 1575 ft ² /gal @ 1.0 mils DFT (39 m ² /L @ 25 µm) |
| Weight per Gallon | 7.8 lbs/gal (0.94 kg/L) |
| Flash Point | 482 °F (250 °C) |
| Recommended DFT | 1.0-3.0 mils (25-75 µm) |
| Recommended WFT | 1.0-3.0 mils (25-75 µm) |
| Dry to Touch | NA |
| Dry to Handle | NA |
| Recoat Time | NA |
| Force Dry | NA |
| Full Cure | NA |
| Salt Spray (ASTM B117) | 500+ hrs |
| Humidity (ASTM D1748) | 2000+ hrs |
| Adhesion (ASTM D3359) | NA |
| Flexibility (ASTM D522) | ½" mandrel (1.27 cm) |

All tests performed after a 7 day cure at ambient temperature

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APPLICATION

Surface Preparation

Substrate should be free of grease, oil, dirt, fingerprints, drawing compounds, rust inhibitors (except Cortec® approved), or any other surface contamination that could affect adhesion. Cortec® recommends a minimum of a SSPC-SP1 over painted surfaces. For bare metal applications, Cortec® recommends a NACE #3/ SSPC-SP6. Consult Cortec® Technical Service and/or test system adhesion prior to full scale application.

Power agitate to a uniform consistency using a “squirrel cage” type mixer, hand-held drill mixer, or other equivalent method. EcoLine® 3690 can be applied by spray, roll, brush, or dip.

Typical Equipment Setups

HVLP / Conventional Spray

- Tip 0.02-0.11” (0.5-2.8 mm) dependent upon pressures and viscosity
- Air Pressure 45-55 psi
- Fluid Pressure 10 psi
- Fluid hose should be 3/8” (0.95 cm) I.D. with a maximum length of 50 feet (15.2 m). 1/4” (0.64 cm) I.D. fluid hose can be used, but pressures may need to be adjusted. Pot should always have dual regulation and be kept at same elevation as spray gun.

Air Assisted Airless / Airless

- Tip 0.015-0.035” (0.38-0.89 mm) dependent upon pressures and viscosity
- Pressure 1800-2500 psi
- Hose should be 3/8” (0.95 cm) I.D. minimum, but a 1/4” (0.64 cm) I.D. whip end section may be used for ease of application. A maximum length of 100 feet (30.5 m) is suggested.

Cleanup

Clean tools/equipment immediately after use with butyl acetate when coating is still wet. For removal of EcoLine® 3690 applied to a metal surface, use a VpCI®-41x series alkaline cleaner/degreaser. Follow mfg’s safety recommendations when using any solvent.

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