

**EC-2500**  
**100% Solids Penetrating Sealer**

**Product Name:** Blome EC-2500 Penetrating Sealer

**Generic Type:** 100% solids two component epoxy polymeric amine

**Description:** EC-2500 is designed to penetrate marginally prepared surfaces and to tie rust and discontinuities in existing coatings into a firm surface suitable for a variety of top coats.

**Features:**

Excellent adhesion to SSPC-2 prepared steel, galvanizing, aluminum, stainless steel and copper.  
No odor  
100% solids  
No VOCs  
Good Flexibility  
Good Chemical Resistance  
Brush, roll or spray.  
Long working life

**Color:** Translucent Green

**Primers:** Self-Priming; may be applied over most types of existing coatings.

**Top Coats:** Solvent or Water Based Versions of; Alkyds, Epoxies, Acrylics, Urethanes.

**Dry Film Thickness:** 1 to 2 mils      Theoretical Coverage      1604 ft<sup>2</sup> at 1 mil DFT  
802 ft<sup>2</sup> at 2 mils DFT

<b>VOC Values</b>	As supplied	0.0 lbs/gal (0 gms/liter)
	Thinned 6 fl oz per gallon (Xylene)	0.36 lbs/gal (43 gms/liter)

**Limitations:** Dry Temperature Resistance 175F continuous, 200F Non-Continuous  
Must be topcoated  
Not for immersion service

**Application:**

**Surface Preparation:**

All surfaces must be clean, dry and free of dirt and oil when coated.  
Previously Painted Areas must be tightly bonded to the substrate. Recommend checking adhesion of existing coatings with a test patch. Existing coatings adhesion test must have a 3B or better rating using ASTM D3359 X Scribe Adhesion Test.  
Steel needs to be prepared in accordance with SSPC-SP2 or SP3.

**Equipment:**

Spray: Standard airless spray equipment. Select Tip and Fan size to yield a light penetrating spray to insure wetting the surface completely.

Brush or Roll: Use a medium bristle brush or a medium to long nap roller to evenly wet the surface.

**Mixing:**

Individual components do not have to be premixed before the final mix of the two components. Do not mix partial kits. Always mix 1 volume of Part A with 1 volume of Part B. Mix well but at slow speed to avoid the induction of air into the mix. Ensure the sides of the mixing container are scraped to incorporate this area into the final mix.

**Ratio:** Kit Size 2 gal.  
 Blome EC-2500 Penetrating Sealer Part A 1 gal.  
 Blome EC-2500 Penetrating Sealer Part B 1 gal.

**Thinning:**

Blome EC-2500 Penetrating Sealer does not normally require thinning. If required it can be thinned up to 5% (6 fl.oz.) per gallon of mixed product with Xylene.

**Pot Life:** 60 - 70 minutes @ 70F  
 45 - 60 minutes @ 80F  
 40 - 45 minutes @ 90F  
 35 - 40 minutes @ 100F

**Application Parameters:**

Parameter	Material	Surface	Air	Rel. Humidity
Standard	70 – 90 F	80 – 90 F	80 – 100 F	0 – 80 %
Minimum	60 F	70 F	70 F	0 %
Maximum	100 F	130 F	110 F	90 %

**Curing Schedule:**

Surface Temp @50% R.H	Dry To Handle	Dry To Topcoat	Final Cure
70 F	34 hrs	18 hrs	9 Days
80 F	22 hrs	12 hrs	6 Days
90 F	14 hrs	9 hrs	4 Days
100 F	11 hrs	4 hrs	3 Days

Curing schedule is based on a 1 to 2 mil DFT. Higher film thickness, insufficient ventilation or cooler temperatures will require longer cure times. If the material is thinned (not normally required) cooler temperatures could lead to solvent entrapment and possible premature failure. Excessive humidity or condensation on the surface during curing can also interfere with the cure, which can cause discoloration and may result in a surface haze. Any haze or blush must be removed by water washing before topcoating. During high humidity conditions, it is recommended that the application be done while temperatures are increasing.

**Top Coat Recoat Schedule:**

Surface Temp. @ 50% R.H.	Max Recoat Time Epoxies & Urethanes	Max Recoat Time Acrylics & Alkyds
50 F	30 Days	14 Days
75 F	30 Days	14 Days
90 F	15 Days	7 Days

If maximum recoat time is exceeded, the surface must be abraded by sweep blasting, or application of a fresh coat of the sealer/primer.

**Packaging & Storage:**

Item	0.5 Gal Kit	2 Gal Kit	Flash Pt.	Shelf Life	Storage
Resin Part A	0.25 gal	1 gal	>205 F	3 years	40 -110 F @ <90% R.H.
Hardener Part B	0.25 gal	1 gal	>205 F	3 years	40 -110 F @ <90% R.H.
Shipping Wt.	6 lbs	22 lbs			

**Warranty**

WE GIVE NO WARRANTY OR GUARANTEE, WHETHER OF MERCHANT ABILITY OR FITNESS OF

PURPOSE OR OTHERWISE, AND WE ASSUME NO LIABILITY IN CONNECTION THEREWITH. We are happy to give suggestions for applications; however, the user assumes all risks and liabilities in connection therewith regardless of any suggestion, we may give. We assume no liability for consequential or incidental damages. Our liability, in law and equity, shall be expressly limited to the replacement of non-conforming goods at our factory, or at our sole option, to repayment of the purchase price of the non-conforming goods.

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