

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 ft² at 1 mil DFT
802 ft² at 2 mils DFT

VOC Values	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			

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Supersedes all previous literature