

PRODUCT INFORMATION SHEET**DESCRIPTION:**

EMSOL[®] ST-3000 is 100% solids, high performance novolac epoxy coating featuring superior chemical and abrasion resistance with a Kevlar reinforced finish that will withstand severe abuse. EMSOL[®] ST-3000 can be applied to surfaces above and below the water line, bonds to concrete (wet & dry), steel and wood surfaces.

TYPICAL USES:

Most corrosive environments
Marine, chemical, pulp & paper
Spillways, piping, pilings, columns
Excellent as a finish top coat

VISCOSITY (@72°F):

Mixed: 12200 cps

COLORS:

Standard Gray, Black, White
Other colors may be available

FEATURES:

Resistant to most corrosive chemicals
Non-blushing & non- water spotting
Can be applied underwater
Non-corrosive, non-hazardous
Applied over metallic and cementitious
substrates both wet and dry

MIX RATIO BY VOLUME:

5 parts A to 3 parts B (by volume)

CURE SCHEDULE:

Pot life @75°F: 25 minutes
Tack free: 4 hours
Light Service: 14 hours
Full Service: 3 days

PHYSICAL PROPERTIES:

Compressive Strength	ASTM D695	10,800 psi
Tensile Strength	ASTM D638	4,900 psi
Elongation at Break	ASTM D638	25 %
Abrasion Resistance		
CS-17 Wheel, 1 kg load	ASTM D4060	0.14 gm loss
Water Absorption (2 hour Boil)	ASTM D570	0.14%
Flexural Strength	ASTM D790	6,700 psi
Shore D Hardness	ASTM D2240	90
Heat Distortion Temperature	ASTM D648	130°F
Bond Strength to Concrete		100% concrete failure
Solids by Volume		100%
Shelf Life		1 year
Theoretical Spread Rate		100 sq. ft. @ 16 mils

CHEMICAL RESISTANCE GUIDELINES

1 = constant immersion
3 = secondary containment (72 hours)

2 = intermittent immersion
4 = splash & spill

ACIDS:

Acetic	1-10%	3
Acetic	10-100%	4
Chromic	1-10%	3
Citric	all	2
Cresylic	all	4
Hydrochloric	all	2
Lactic	1-30%	3
Lactic	31-50%	4
Nitric	1-10%	3
Nitric	11-40%	4
Oxalic	1-30%	2
Phosphoric	all	2
Sulfuric	1-50%	1
Sulfuric	51-98%	2
X-ray solution		4

SOLVENTS:

Acetone		4
Benzene		4
Butyl Cellosolve		3
Ethanol		2
MEK		4
Methanol		2
Toluene		4
111 TCE		3
Xylene		3

ALKALIES:

Ammonium Hydroxide	all	1
Calcium Chloride	all	1
Calcium Hypochlorite	all	2
Caustic Soda	all	1
Caustic Potash	all	1
Sodium Hypochlorite	1-15%	2
Sodium Hypochlorite	1-30%	4
Sodium Hydroxide	all	1
Sodium Sulfide	all	2

WATER:

Salt		1
Fresh		1
Deionized		2
Sewer, Sludge		2

MISCELLANEOUS:

Skydrol®Fluids		2
Bleach		2
Water all		1
Oils, grease		1
Gas, Jet Fuels		3
Salts		2

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