



# eco-PROTECTIVE PRODUCTS, LLC

Technical Data Sheet

August 2008

## Eco-Coat 4500

### PRODUCT DESCRIPTION

Eco-Protective Products' EC-2500 is a 100% solids, state of the art, VOC-free, plural-component, pure polyurea elastomeric membrane. This seamless system exhibits extraordinary performance characteristics. EC-2500 is based on amine-terminated polyether resins, amine chain extenders and MDI prepolymers. This membrane achieves an extremely tough, flexible, chemical and abuse resistant finish for a wide range of applications.

### ADVANTAGES

- Smoother finish
- Higher Elongation; greater flexibility
- Almost instant Gel time
- Fast cure; can be handled/walked on in one minute
- Can be built up to any thickness in one application
- Seamless and flexible
- Application at -20°F to 300°F
- Resistant to thermal shock
- No VOC's
- USDA Approved
- Resistant to many chemicals
- May be topcoated for additional chemical resistance

### USES

- Concrete
- Steel
- Fiberglass
- Railcars
- Corrosion Protection
- Containment Areas
- Cold Storage

### Reaction Profile

Gel/Tack Free Time, seconds

18-45

### TYPICAL PERFORMANCE CHARACTERISTICS

Tensile Strength, psi (ASTM D-638)	3000
Elongation, % (ASTM D-638)	450
Tear Strength, pli (ASTM D-624)	495
Shore D Hardness (ASTM D-2240)	51
Moisture Vapor Transmission (ASTM E-96) (PERMS @ 30 dry mils)	0.02
Abrasion Resistance, mg (ASTM D-4080) (1000g, 1000 rev, H-15)	220
(1000g, 1000 rev, cs 17)	<10
1000 Modulus, psi (ASTM D-638)	1200
Flash Point	>200°F
Flame Spread (ASTM E-108)	Class A
Flexibility Testing, in-lbs (ASTM D-2794)	>160
Mandrel Bend	
Conical Bend (on 1/32" steel panels, ASTM D-552)	Pass
1/4" Mandrel 25°C, free film 30-50, ASTM D-1737	Pass
1/4" Mandrel -20°C, free film 35-50, ASTM D-1737	Pass

### APPLICATION RECOMMENDATIONS

Machine Mixing Requirements:

Heated Plural Component Equipment, 1:1 ratio only, such as: H 2000, H-35000 or H-20/35 series with a GX7, sprayed at a minimum of 2000 psi and 160°F at the gun

Revised 09/02/08

**"Mother Nature's Preferred Paint"**