



*Surface Technologies*

# *XL-1000® Asphalt Emulsion Sealer*

# **Hi-Performance**

## *Commercial Pro Formula*

### **Exceeds Federal Specifications**

- ◆ Fortified with Geotexite & Co-polymers for Better Bonding, Adhesion and Improved Viscosity
- ◆ Color Enhanced with Black Iron Oxide Pigments for a Blacker, Longer-Lasting In-depth Finish
- ◆ Fast-Drying Additives to Speed Curing, Less Down Time, Quicker Re-Striping
- ◆ Finely Milled Black Iron Aggregate Added for Mass Void & Crack Filling and Traction
- ◆ Acrylic Formulated to Provide Greater Elasticity and Recovery Superior Resistance to Severe Conditions & Traffic Abrasion

**Continuous Laboratory  
Control to Insure Uniformity,  
Consistency & Quality**

***Specially Formulated to  
Meet & Exceed the Demands  
of Commercial / Industrial Applications***

# XL-1000® Asphalt Emulsion Sealer

# Hi-Performance

## Commercial Pro Formula

### Product Description

**Uses:** To extend service life and reduce maintenance costs of off street bituminous concrete pavements by protecting the pavement from the deleterious effects of gasoline and motor oil spillage, along with the effects of water, sunlight and oxidation. Coating with XL-1000® AE will also provide a fresh, black, easy to clean, nonskid surface that is protected against de-icing salts and freeze/thaw action.

**Limitations:** Must not be applied when ambient temperatures are below 45° F. or when rain is expected. Material must be protected from freezing.

**Composition:** XL-1000® AE is a homogeneous, high solids emulsion consisting of oil and gas resistant latex polymers, refined asphalt, and a proprietary hi-tech additive dispersed in water by means of special mineral colloid clays. The fully cured XL-1000® AE forms a coating which is highly resistant to the damaging effects of water, sun, oil, gas, oxidation, etc.

**Applicable Standards:** XL-1000® AE meets or exceeds performance and composition requirements of Federal Specification when at application viscosity, provides 25% more mineral fortification and cured coating thickness than required by the above Federal Specification.

### Technical Data

**Physical Composition:** Shall be within the following limits when determined by ASTM D 2939 and D 244 procedures.

	Max.	Min.
Water %	48%	
Non-Volatiles %		52%
Ash of Non Volatiles	38%	34%
Specific Gravity		1.02

**Drying Time:** Shall be determined in accordance with ASTM D-1010-58, Sect. 2, and shall exhibit final set within 8 hours at 25° C. (+ or - 2°) and 50% (+ or - 2%) relative humidity.

**Non-Flammability:** The material shows no tendency to flash or ignite as determined by ASTM D 2939, Sect. 12.

**Resistance to Standard Gasoline:** The cured coating exhibits no penetration or loss of adhesion after 48 hour immersion when determined by ASTM D 466-81.

**Adhesion and Resistance to Water:** The cured coating shall exhibit no blistering, loss of adhesion, or tendency to re-emulsify when determined by ASTM D 2939, Sect. 17.

**Resistance to Heat:** The cured coating shall show no sign of blistering, sagging or slipping when heated at 80° C, for two hours as determined by ASTM D 1010-58, Sect. 12.

**Flexibility:** The cured coating shall show no flaking, cracking, or loss of adhesion to the metal as determined by ASTM D 2939, Sect. 16.

*Complete specification, definition of ASTM testing methods and independent laboratory reports are available upon request.*

### Installation

**Preparatory Work:** Pavement surface shall be properly designed, structurally sound, surface cured, and free of oil, grease, vegetation and other deleterious materials. Surface must demonstrate "coatability," evidenced by becoming thoroughly wetted when a quantity of clean water is splashed on the surface where it must sheet, and wet the surface uniformly.

**Methods:** Application of XL-1000® AE shall be by specially designed hand tools, including soft rubber squeegees, synthetic bristled brushes, or by mechanical squeegee and spray applicators specifically suited for this purpose.

**Note:** XL-1000® AE can be modified with different variations of silica sand, in order to accommodate each pavement requirement. The Standard XL-1000® AE SandMix sealer concentrate is comprised of 4-6 pounds of clean, dry, hard, durable, evenly graded, silica sand blended thoroughly with each gallon of emulsion. Sealer viscosity shall be adjusted with water to achieve proper application consistency. The sand will have a sieve gradation rating of 45 to 85 in accordance with ASTM-C-136. Good drying conditions accompanied by ambient air and pavement temperatures of 45° F. and rising must be present before application of coating should be attempted. A relative humidity near 50% accompanied by breeze and 75° F. temperatures, with no rain imminent comprise ideal coating conditions. Assuming the above conditions, most areas are sufficiently cured for exposure to normal traffic after 12 hours.

**Precautions:** Over exposure to sensitive skin for long periods of time could cause skin irritation, dermatitis, etc. Consult the XL-1000® AE Material Safety Data Sheet for further information.

PAVEMENT USAGE	SHORT SPECIFICATION
Sealing Low Traffic	Home driveways, play areas, parking lot stalls, court area, curbs and gutters, etc. Bituminous concrete pavement shall be protected with 1 coat of XL-1000® AE SANDMIX and 1 coat XL-1000® AE STRAIGHT (No Sand).
Sealing Moderate Traffic	Driveways, parking lots, airfield and highway shoulders, walkways, gasoline station aprons, etc. Bituminous concrete pavement shall be protected with 2 coats of XL-1000® AE SANDMIX.
Sealing Heavy Traffic	Industrial and commercial driveways, parking lots, airfield taxiways, bridge decks, gasoline station aprons, steep areas, etc. Bituminous concrete pavement shall be protected with 2 coats of XL-1000® AE SANDMIX and (optional) 1 coat of XL-1000® AE STRAIGHT (No Sand) where oil or fuel spillage may be prevalent.

Member of Pavement Coatings Technology Center (PCTC)



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