

# TECHNICAL DATA SHEET

## AROS™ Safety Seal PLF

(PAT. PEND.)

AROS™ Safety Seal Parking Lot Formula (PLF), patent pending, defines a completely new and cost effective option for the maintenance of pavement *in parking areas and, with appropriate aggregate, low speed traffic surfaces*. A single, durable coating of AROS™ Safety Seal PLF will:



- 1) restore pavement surface profile
- 2) interrupt progressive oxidative embrittlement
- 3) create a fuel resistant barrier
- 4) eliminate tracking
- 5) extend the repaving cycle
- 6) reduce tire noise
- 7) re-establish diminished surface friction

AROS™ Safety Seal PLF consists of: 1) a finely ground tire (80-140 mesh) immersed and reacted in a waterless, up to 350°F polymer modified asphalt, 2) the reacted hot rubber adhesive is then compounded with a proprietary emulsion. Thereafter it is further prepared for resistance to environmental destruction and tire wear through the interfusing of a proprietary, aerospace polymer-grafted, ceramic nano-fiber analog and then blended with a graded aggregate to make a superior asphalt rubber (AR) parking lot coating. Upon application the AROS™ Safety Seal PLF wicks into rock pores, crevices, fissures and all bituminous mediums and then *shrink wraps*, upon curing, into a tough, flexible, skid resistant surface which protects the upper pavement cross section.



Application down to 40°F & at night by proprietary spray hardware or standard squeegee equipment at spread rates of ca 0.25-0.40 gal/yd<sup>2</sup> is performed after a typical field dilution of 20-30%. Excessive field dilution should be avoided as it will lead to adhesive flushing and premature failure.

### Physical Properties

Cationic emulsion	pH = 2.5 - 4.5
Solids by distillation	50 - 65%
Stone Gradation	-20
Ground tire rubber (ARB)	≤15%
Wet Track Abrasion Test (6 day)	< 10g/ft <sup>2</sup>
Viscosity	>100 sec

(For more information please visit [www.coepolymer.com](http://www.coepolymer.com))  
Consult MSDS before use. Do not allow to freeze.

### Environmental Properties

Health/Fire/Reactivity	1-0-0
HAPs - PAHs	None
VOC	Zero
Toxicity/Carcinogenicity	None/None
Municipal Landfill (residue)	Yes
Aquatic Life	Not a Threat
Carbon Footprint	Zero

# TECHNICAL DATA SHEET (cont.)

## AROS™ Safety Seal PLF

### **APPLICATION RECOMMENDATIONS:**

Apply only onto clean, dry or damp surfaces from which all contaminants have been removed; i.e. built-up crankcase drippings, oil spots, loose traffic paint, etc. Areas upon which a high build-up of grease or loose paint exists shall be scraped, wire brushed and then torch prepared to completely eliminate contaminants from the underlying, sound asphaltic substrate. Prior to application it is recommended that these treated areas be further prepared by surface priming with PETROGUARD™. Where surface profile restoration of divots, depressions or slightly off grade areas is desired Safety Seal PLF may first be mixed with 20 mesh sand to a thick paste consistency then placed into the low areas and troweled smooth. These areas should be allowed to cure prior to surfacing the balance of the project.

Safety Seal PLF is supplied in a high viscosity, semi-paste consistency. This is necessary to insure anti-settling properties. Immediately prior to application a pre-determined, small quantity of potable water shall be slowly mixed into the easily stirred contents. Before diluting large quantities for application it is recommended the installer pre-determine the appropriate dilution ratio by placing a small quantity into a pail followed by adding water at an equivalent of one to three percent by volume (1 – 3%) of the Safety Seal PLF within the pail. By blending in the added water and then spreading onto the intended surface, an accurate determination can be made of the best water dilution ratio to achieve desired spread and wet out properties. Do not over dilute this product as this will terminate the anti-settling qualities of the Safety Seal PLF and could possibly diminish the useful qualities of its cured physical properties.

Do not apply this product unless sufficient weather conditions exist to assure full cure prior to being subjected to snow, rain or heavy dew. The Safety Seal PLF is one of the fastest curing, single package, waterborne road surfacing compound available; but its curing rates are still dependent upon evaporation of the minimal quantities of water contained within the formula. The atmosphere is the ‘pump’ which must provide a lower vapor pressure differential above the surface of the uncured coating for it to condense and dry. The combined effects of five physically measurable properties: surface temperature, air temperature, sun load, wind and humidity will determine the water removal capabilities of this atmospheric ‘pump’ at any given moment. The professional installer will gain valuable experience in gauging time-to-cure by observing cure times against spread rates within the range of these five indicators. It is recommended that the inexperienced applicator only apply this product at spread rates less than ¼ gallon per square yard, during daylight hours, at surface and air temperatures above 50° F (and rising) with no snow, rain or heavy dew in the forecast for at least 24 hours. Immediately clean implements, including hoses, with cool water after application. Safety Seal PLF may crosslink if left standing in sun exposed spray hoses.

### **TRANSPORTATION, STORAGE AND HANDLING:**

- DOT: Not Regulated
- Keep out of reach of children.
- Do not allow to freeze prior to application.
- Do mix with any other products.
- Avoid prolonged skin contact.
- Keep containers tightly sealed when not in use.
- Do not take internally. Do not induce vomiting if swallowed--call a physician immediately.
- Store, handle and dispose per MSDS requirements.