

# Asphalt Rubber Micronized Slurry (ARM™ Slurry) Hot Sprayed Seal Coat or Type I



*Penetrating Shrink Wrap Membrane  
Cures in Minutes Protects for Years*



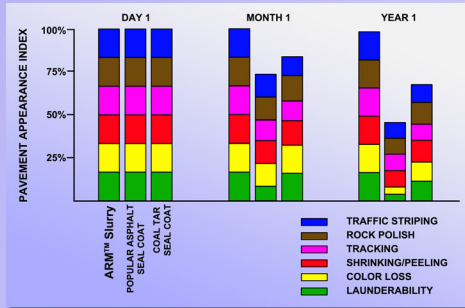
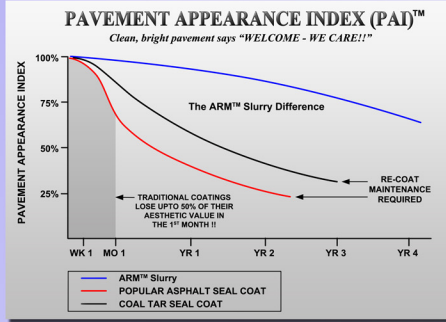
# ARM™ Slurry

## Hot Sprayed Seal Coat or Type I

ARM™ Slurry, is an engineered, interlocking, carefully graded stone-and-rubber matrix fused together with a PG 82-22 binder which passes 2,000 hr QUV weatherometer. ARM™ Slurry Technology utilizes P2GTR grafted polymer. Seal coat uses a course aggregate; Type I uses an aggregate per ISSA standard. ARM™ Slurry is designed to replace similar products with a substantially more durable and versatile alternative. ARM™ Slurry is designed to be heated (< 200°F) for rapid curing on cool pavement for early open-to-traffic efficiencies. ARM™ Slurry has a positive environmental impact including a unique zero carbon footprint.

### Superior Cost & Performance Advantages

- Permanent cost effective pavement preservation alternative **for driving lanes**. Replaces seal coats & Type I slurries for all pavement surfaces including parking lots to freeways to airports
- Available as an inert coating to jet fuel (ASTM 2939), gasoline and petroleum products
- Toughens and preserves pavement surface - No high temperature tracking
- Sustained durability to sun, water, and ice; prevents road surface oxidation
- Surface remains black beyond *best* hot mix asphalt color retention
- More durable (e.g.  $\geq 2x$  for seal coats), **Lowest life-cycle cost PERIOD!**



- Remains flexible at low temperatures
- May be spray applied (cold) by distributor truck with up to 50% dilution
- Superior single package suspension
- Will not puddle or run; which assures a uniform cured film thickness and no tire splash
- Penetrates fissures, revitalizing upper region of asphalt pavement

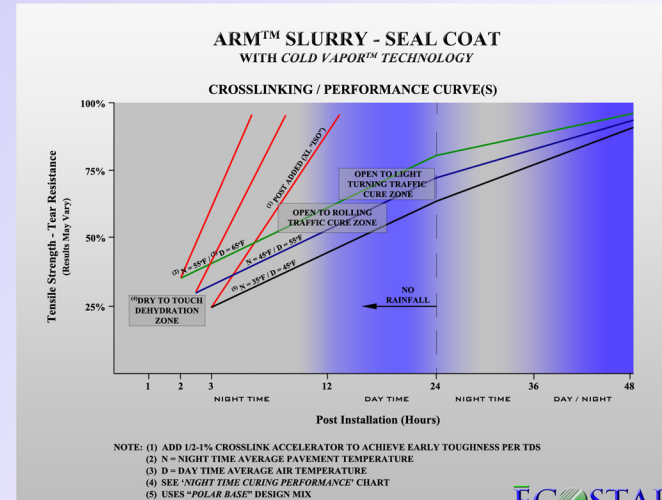
### Advanced Safety & Environmental Benefits

- Improves stone microtexture & skid coefficient of existing pavement
- On-site, reactive polymer boost option available to increase tire abrasion resistance
- Sustained visibility and contrast of traffic markings during all stopping conditions (wet, dry, day, or night)
- No hazardous leachates – No PAH's
- Environmentally green; is air and water inert
- Uses recycled tire rubber (1000 gal of concentrate/mi consumes as much as 150 scrap tires)



M'Nary Airfield (Salem, OR)

When ARM™ Slurry is applied what improvements to cure time might result?



## 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. Parking 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 Grime Prime™. Where surface profile restoration of divots, depressions or slightly off grade areas is desired ARM™ Slurry 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.

ARM™ Slurry is supplied in a medium viscosity, high-gel consistency. Proper dilution of the ARM™ Slurry is important. Recommended dilution range is (by volume): **Seal Coat = 20 - 50%, Type I slurry = 10 - 15%**. To achieve/improve optimal flow and leveling properties at the higher end of the dilution range the applicator may add Zerathane Gel (Z Gel) with the dilution water at up to a 1:4 ratio (Z Gel:Water). It is best to pre-disperse the Z Gel in the dilution water prior to addition; but it may be blended into the ARM™ Slurry simultaneously to the addition of the dilution water. Performing the dilution analysis at a bucket scale is recommended for first time users. Do not over dilute this product as this will terminate the anti-settling qualities of the ARM™ Slurry 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 ARM™ Slurry 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 minimum dilution 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. ARM™ Slurry 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.

### Physical Properties

EMULSION:	
Amphoteric	pH = 2.5 - 8.5
Solids by Distillation	62 - 68%
DSR	PG 82-22
ARM™ SLURRY COMPOUND:	
Solids by Distillation (conc.)	58 - 65%
Stone Gradation (seal coat)	-20
(Type I)	Per ISSA
Ground Tire Rubber (ARB)	5 - 15%
Wet Track Abrasion Test (6 day)	< 10g/ft <sup>2</sup>
Viscosity (conc.)	>100 sec
(dilute)	>20 sec
Bulk Density (lbs/gal)	8.5 - 12.5

### 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

For more information please visit

[www.ecostarscience.com](http://www.ecostarscience.com)

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