ArrMuls® 1315

Anionic (-) Slow-Setting Emulsifier

Innovative Chemistry Dedicated to Improve Emulsion Stability and Tack Coat Drying Time

ArrMuls 1315 is an asphalt emulsifier chemical used to produce anionic slow-setting (SS-1, SS-1h) emulsions conforming to typical specifications, including AASHTO M-140/ASTM D-977. SS emulsions have the highest degree of stability and are used in a variety of asphalt pavement and industrial applications.

Applications:

Tack Coat | Fog Seal | Mixing-Grade | Pavement Sealer | Industrial Coatings

Features and Benefits:

Outstanding Emulsion Stability
Best-in-class in producing pump, sieve and settlement stable dilute and non-dilute emulsions

Faster Emulsion Drying Time
Faster tack coat and sealer drying and curing times compared to competing products means faster paving

Protection Against Foul Odor
Non-lignin based chemistry avoids biological growth and resultant odor issues in emulsions

High Efficiency
70% active, significantly lower dosage requirements and lower freight expenses

Easy to Handle
Low viscosity and no need to add caustic when producing soap

Use ArrMuls 1315 When You Need an Emulsion That:

- Remains stable during extended storage and after repeated pumping cycles
- Breaks and dries faster allowing for increased paving production
- Will not develop foul odor

Compatibility:

Asphalt
Easily emulsify all asphalt types including paraffin-rich, low penetration and SBS-modified

Polymer Modifiers
Compatible with SBR and acrylic latexes

Compounding Additives
Compatible with various clays, fibers, pigments and other compounding additives used in producing pavement sealer and industrial coating emulsions

Aggregates
Easily mixes and is compatible with RAP, limestone, granite and most other types of aggregate and granular materials, even when damp and/or dusty

Usage Recommendations:

Typical Emulsion Formulation:

Tack Coat, Fog Seal, Mixing-Grade:	1.0 – 1.3%	ArrMuls 1315
Pavement Sealer, Industrial Coatings:	1.4 – 1.6%	ArrMuls 1315

No caustic addition necessary, use as-is. Typical asphalt content is 60 – 62%. Percentages are by weight of emulsion.

Road Science®
Division of ArrMaz

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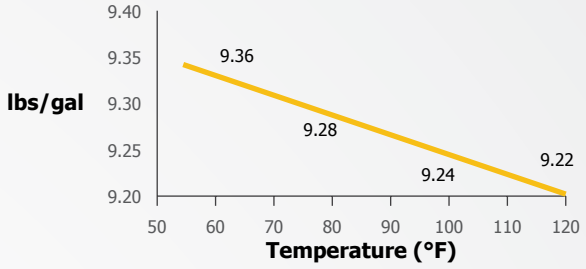
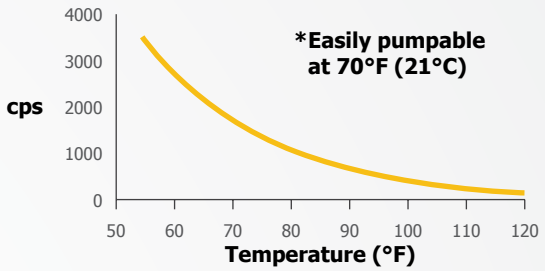
Availability:

ArrMuls 1315 is available for shipment in bulk by railcar and tank truck. Packaged quantities are available in 275 gal/1,041 L IBC totes (2,400 lb/1,088.6 kg net weight) and 55 gal/208 L metal drums (480 lb/217.7 kg net weight).

Physical Characteristics:

Property:	Description:
Appearance, 77°F (25°C)	Dark Liquid
Odor	Resinous
Density, 77°F (25°C)	9.28 lbs/gal (1.11 kg/L)
Viscosity, 77°F (25°C)	1,100 cps
Pour Point	< 35°F (2°C)
Solids	70%
Saponification	Sodium Hydroxide
TSCA Inventory	Listed
DSL Inventory	Listed
C.A.S. Number	Proprietary





*The density and viscosity data reported are typical and not specifications. Typical ranges for density and viscosity values are ± 2 and ± 20%.

Handling and Storage:

Always handle ArrMuls products in accordance with the safety data sheet (SDS) and proper safety procedures. Avoid product contamination with other materials. Do not heat product in excess of 120°F (49°C) for prolonged periods. Recommended product storage and handling temperature range is 70 – 120°F (21 – 49°C).

Technical Support:

To request additional product information, contact your regional Road Science representative. You can also contact us at **918-960-3800** or **customerservice@roadscience.net**, or visit our website at **www.roadscience.net**.