

ArrMuls® 3015

Anionic (-) Slow-Setting Emulsifier

Performance Enhancing Chemistry for Pavement Sealer and Industrial Coating Emulsions

ArrMuls 3015 is a low viscosity, easy to handle asphalt emulsifier chemical used to produce anionic slow-setting emulsions made with low penetration asphalts for compounding to make pavement sealer and industrial coating products. ArrMuls 3015 is also used to produce paving grade slow-setting emulsions (SS-1, SS-1h) conforming to typical specifications, including AASHTO M-140/ASTM D-977.

A preventative maintenance application for pavements with low traffic speeds and tight turning radiuses, pavement sealers provide an aesthetically pleasing surface and protect the underlying pavement from moisture damage, oxidation, and wear and tear.

Applications: Pavement Sealer Industrial Coatings Tack Coat

Features and Benefits

Easily Emulsify Hard Asphalt

Emulsifies zero penetration asphalt with ease and yields small emulsion particle size

Better Shear Stability

Emulsion remains stable during compounding process and after vigorous mixing and pumping

Faster Emulsion Drying

Emulsion breaks, dries and cures faster. Unlike competing products, does not contain lignin and nonionic surfactants that are slow to break and cure

Better Durability

Better scrub test and Wet Track Abrasion Test performance

Sealer application will not re-emulsify in warm water under repeated shear stress

Easy to Handle

Low viscosity and no need to add caustic when making soap

Use ArrMuls 3015 When You Need:

- Better emulsion quality using hard asphalt
- Faster drying sealer, coating or tack emulsion
- An easier to handle, liquid alternative to solid resin-based emulsifiers

Compatibility

Asphalt

Easily emulsify all asphalt types including low penetration, paraffin-rich and styrene-butadiene-styrene (SBS) modified

Polymer Modifiers

Compatible with styrene-butadiene rubber (SBR), natural and acrylic latexes

Compounding Additives

Compatible with most clays, fibers, fillers, pigments and other compounding additives

Aggregates

Compatible with damp and dusty aggregates of various types including granite, diabase, basalt, chert, limestone, dolomite, sandstone, slag and silica sand

Usage Recommendations

Typical Emulsion Formulation:	ArrMuls 3015, % bwe	Soap pH	ArrMuls D-Tekk, % bwe
Pavement Sealer	3.5 – 5.0	as-is	3.0 – 5.0*
Industrial Coating	3.0 – 5.0	as-is	–
Tack Coat	2.5 – 4.0	as-is	–

Alkali addition not necessary, ArrMuls 3015 is pre-saponified. Typical total residue of pavement sealer and tack coat emulsion is 58 – 62%. Percentages are by weight of emulsion (bwe). *Optional, ArrMuls D-Tekk is an emulsion performance improving additive that toughens finished sealer surface and reduces vehicular tracking of sealers and tack coats.

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Chemistry for Pavement Sealer and Industrial Coating Emulsions

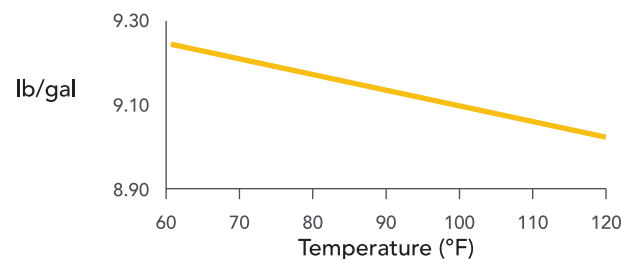
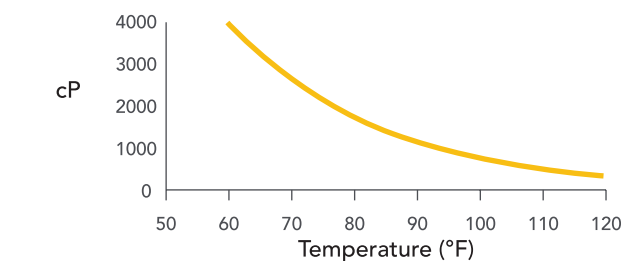
Availability

ArrMuls 3015 is available for shipment in bulk by rail car and tank truck. Packaged quantities are available in 275 gal/1,000 L IBC totes (2,300 lb/1,043.3 kg net weight) and 55 gal/208 L metal drums (450 lb/204.1 kg net weight).

Physical Characteristics

Property:	Description:
Appearance, 77°F (25°C)	Dark-Colored Liquid
Odor	Resinous
Density, 77°F (25°C)	9.20 lb/gal (1.10 kg/L)
Viscosity, 77°F (25°C)	1,400 cP
Pour Point	< 50°F (10°C)
TSCA 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 Safety Data Sheet (SDS) and proper safety procedures. Avoid product contamination with other materials. Do not heat product in excess of 140°F (60°C) for prolonged periods. Recommended product handling temperature range is 70 – 110°F (21 – 43°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.

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