

ArrTekk® 1285

Cationic (+) Micro-Surfacing Emulsifier

Chemistry for Extended Micro-Surfacing Life Cycle and Fast Traffic Return

ArrTekk 1285 is an asphalt emulsifier chemical used to produce high-performing micro-surfacing emulsions conforming to typical specifications, including the International Slurry Surfacing Association's (ISSA) *A143: Recommended Performance Guideline For Micro-Surfacing*. ArrTekk 1285 is also used to produce fog seal emulsions that break and cure faster than typical fog seals.

A preventative maintenance application, micro-surfacing provides an aesthetically pleasing skid-resistant surface that restores pavement profile and seals the underlying pavement, protecting it from further deterioration.

Applications: Micro-Surfacing Fast-Breaking Fog Seal

Features and Benefits

Better Micro-Surfacing Life Cycle Duration

Stronger asphalt-to-aggregate adhesion provides less raveling and lower 6-day Wet-Track (WTAT) loss for greater durability

Faster Micro-Surfacing Traffic Return Time in Cool Conditions and Night Time Paving

Easy control of chemical break in cooler weather and at night for sooner traffic return and greater production rates

Faster Fog Seal Traffic Return Time

Emulsions break and cure faster for sooner traffic return and reduced vehicular tracking of fog seal

Better Emulsion Stability

Smaller emulsion particle size and increased pumping shear resistance for greater stability

Easy to Handle

Lower viscosity and easy handling at temperatures above 90°F (32°C)

Use ArrTekk 1285 When You Need:

- Micro-surfacing that is more durable and lasts longer
- Faster micro-surfacing traffic return time
- Faster fog seal traffic return time
- Improved emulsion stability

Compatibility

Asphalt

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

Polymer Modifiers

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

Aggregates

Compatible with both moderately reactive and less reactive aggregates of various types, including granite, diabase, trap rock, basalt, quartzite, gneiss, chert, limestone, sandstone and slag

Usage Recommendations

Typical Emulsion Formulation:	ArrTekk 1285, % bwe	Hydrochloric Acid (HCl)	SBR or Natural Latex, % bwe
Micro-Surfacing	1.2 – 2.0	To soap pH of 1.4 – 2.0	3.0 – 3.5
Fast-Breaking Fog Seal	0.7 – 0.9	To soap pH of 1.4 – 1.8	

Typical total residue of micro-surfacing emulsion is 62 – 65%.
Typical total residue of fog seal emulsion is 60 – 62%.
Percentages are by weight of emulsion (bwe).

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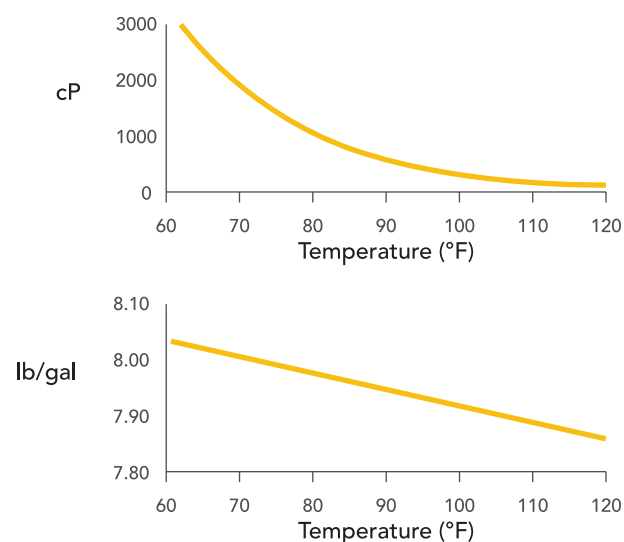
Availability

ArrTekk 1285 is available for shipment in bulk by rail car and tank truck. Packaged quantities are available in 275 gal/1,041 L IBC totes (2,200 lb/997.9 kg net weight) and 55 gal/208 L metal drums (420/190.5 kg net weight).

Physical Characteristics

Property:	Description:
Appearance, 77°F (25°C)	Dark-Colored Liquid
Odor	Amine
Density, 77°F (25°C)	7.97 lb/gal (0.96 kg/L)
Viscosity, 77°F (25°C)	1,600 cP
Pour Point	< 50°F (10°C)
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 ArrTekk 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 90 – 115°F (32 – 46°C).

Technical Support

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

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