

TECHNICAL DATA SHEET

WARMGRIP® ULTRA 37N

HIGH PERFORMANCE NON-AMINE WARM MIX ADDITIVE

WarmGrip® ULTRA 37N is an asphalt additive that facilitates reduced temperatures during mix production and lay-down, easier field compaction and stronger adhesion of asphalt binder to aggregate. It safeguards pavements against destructive forces such as water intrusion, oxidation, pothole formation, cracking and rutting, for safer, smoother and longer-lasting roads. WarmGrip® ULTRA 37N is used to design mixes that conform to common industry specifications including AASHTO T283: Method of Test for Resistance of Compacted Bituminous Mixture to Moisture Induced Damage, AASHTO T324: Method of Test for Hamburg Wheel-Track Testing of Compacted Hot Mix Asphalt (HMA) and AASHTO R35: Standard Practice for Superpave Volumetric Design.



Applications

- Hot mix Asphalt additives
- Warm mix Asphalt additives

FEATURES & BENEFITS

- Reduces Temperatures: Allows for production and paving temperature reductions of up to 70 °F (40 °C)
- Improves Compaction and Mix Workability: Enables increased mat density with fewer roller passes, even with high recycled asphalt pavement (RAP) mixes.
- Low Odor and No Smoke: Improves comfort of plant personnel and paving crew. Mitigates odor concerns in neighboring communities to terminals and mix plants.
- Compatible with all Asphalts: Little to no reduction in dynamic shear rheometer (DSR) values with PPA and SBS modified asphalts.
- Reliable Adhesion Promoting Effectiveness: Passes Tensile Strength Ratio (TSR) and Hamburg Wheel-Track testing with difficult aggregates.
- Heat-stable: Remains effective for up to several months in hot asphalt.

COMPATIBILITY

- Asphalts: Compatible with most asphalts including those modified with styrene-butadienestyrene (SBS), styrene-butadiene rubber (SBR), ethylene-vinyl acetate (EVA) polymers, ground tire rubber (GTR) and recycled asphalt shingles (RAS).
- Aggregates: Compatible with various aggregate types including granite, diabase, diorite, basalt, gabbro, rhyolite, andesite, dacite, chert, quartzite, gneiss, limestone, dolomite, marble, sandstone, natural sand and gravel, slag and recycled asphalt pavement

USAGE RECOMMENDATIONS

Neat and Modified Asphalts: 0.25–0.75% by weight of total asphalt in mix.

Usage rate should be determined by user based on degree of aggregate coating and moisture sensitivity testing at desired production temperature.

WARMGRIP® ULTRA 37N

TYPICAL PHYSICAL CHARACTERISTICS*

PROPERTY	VALUE
Appearance	Amber liquid
Odor	Odorless
Viscosity (25°C/77°F)	1000 cP
Density (25°C/77°F)	1.02 g/cm ³ (8.11 lbs/gal)
CAS Number	Proprietary
TSCA Inventory	Listed

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

STORAGE AND HANDLING

Always handle WarmGrip® ULTRA 37N in accordance with the Safety Data Sheet (SDS) and Arkema Asphalt Additives Handling and Storage Guidelines document. Avoid product contamination with other materials. Do not store product in excess of 160°F (71°C) for prolonged periods. Recommended product handling temperature range is 60–120°F (16–50°C).

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