

# MICRO-LOCK<sup>®</sup>

**REINFORCES AND ADDS SUBSTANTIAL BENEFITS TO ASPHALT EMULSION SEALERS**

## GENERAL DESCRIPTION

STAR MICRO-LOCK<sup>®</sup> is a true rubberizing, A/B (Acrylonitrile/Butadiene) latex based additive that significantly improves the performance of Asphalt Emulsion (AE) based sealcoatings. STAR MICRO-LOCK<sup>®</sup> reinforces sealcoatings in the most desirable aspects of toughness, flexibility, viscosity for sand suspension and overall resistance to many chemicals and de-icing salts.

## OUTSTANDING PROPERTIES

- Toughens the sealer film and improves tensile strength thus reducing power steering marks, scuffing and tearing. Improves flexibility and adhesion of the cured sealer film to the existing surface. Improves chemical resistance of the cured film.
- Improves flexibility and the ability to bridge minor surface (non-working) cracks in the pavement to eliminate water penetration and extend the life of asphalt surfaces.
- Boosts the viscosity of the diluted sealer and enables it to suspend large quantities of sand effectively and uniformly. Eliminates sand roll out, and the streaky appearance of a cured coating. Finished jobs will have a more uniform-textured appearance.
- Speeds up the drying time of sealcoatings.
- The addition of STAR MICRO-LOCK<sup>®</sup> can allow an Asphalt Emulsion mix design the ability to meet specifications similar to that of FAA.
- Based on a polymer-emulsion; safe to handle and use. No health hazards have been reported.

## RECOMMENDED USES

STAR MICRO-LOCK<sup>®</sup> is recommended for applications where moderate to high traffic exists or environments with frequent abuse from chemicals and de-icing salts. Used in applications at; Airport Runways and Taxiways, Fast Food Restaurants, Apartment Buildings, Commercial and Industrial Complexes, Residential Driveways and many more.

## LEVEL OF ADDITION

**2-5% STAR MICRO-LOCK<sup>®</sup> by volume of the concentrated sealer**  
IT IS NECESSARY to pre-dilute STAR MICRO-LOCK<sup>®</sup>

## MIX DESIGN (SUGGESTED)

	<u>US</u>	<u>METRIC</u>
Sealcoating	100 Gallons	100 Liters
Clean Potable Water	50 Gal. Max	50 Liters Max
Sand 50-70 AFS	300-500 Lbs.	36-60 Kg.
STAR MICRO-LOCK <sup>®</sup> /Water (1:1)	2-5 Gal.	2-5 Liters

## MIXING TIPS

- Add water to the sealer and start agitation.
- **IMPORTANT:** Pre-mix STAR MICRO-LOCK<sup>®</sup> with an equal volume of water. **Caution** - Water must be added into to STAR MICRO-LOCK<sup>®</sup>, not vice-versa
- With agitation on, add the STAR MICRO-LOCK<sup>®</sup>/water mixture to the diluted sealer and continue mixing for 5 minutes.
- Add the sand slowly, at a steady rate of about 100-lb. bag/minute.
- Continue to mix to a smooth consistency. Adjust the speed of mixer to turn the sealer mix sufficiently inside the tank without beating air into the mix. You may have to raise the speed during sand addition and reduce towards the end of the mix cycle.

## IMPORTANT WEATHER LIMITATIONS

- Surface and air temperature should be a min. 50° F (10° C) and rising.
- Do not apply on rainy, foggy, or extremely humid days (max 80%), or when rain is in the forecast within 8 hours.
- Most favorable conditions are; humidity less than 60%, higher temperatures and lower relative humidity with mild wind velocity.

## SPECIAL INSTRUCTIONS

- Do not add more than 5% of STAR MICRO-LOCK<sup>®</sup>. Beyond this limit, it will not add any performance benefit. Conversely, it may thin down the sealer mix.
- Do not add more sand than 5 lb./gallon of the concentrated sealer. Higher amounts of sand reduce the flexibility and adhesion of the cured sealer.
- Keep the water dilution rate below 50%. Excessive amounts of water will cut down the dry sealer film thickness, which in turn will result in pre-mature failure.
- Mix thoroughly before using and keep unused container properly sealed.
- **Using other additives or additives manufactured by companies other than STAR, Inc in conjunction with this product might produce undesirable results. Consult your STAR representative for recommendations.**

## CAUTIONS

KEEP FROM FREEZING / KEEP OUT OF REACH OF CHILDREN  
Wear gloves and protective clothing. In case of contact, flush skin or eyes immediately with fresh water. If the product gets in the mouth or eyes see a physician immediately. Consult a Safety Data Sheet for details.

## PACKAGING & AVAILABILITY

5-Gallon plastic pails, 55-gallon drums and 275-gallon plastic totes at all STAR plant locations.

**WARRANTY & DISCLAIMER** Additives manufactured by S.T.A.R., Inc. are designed specifically for use with the RTS and AE Sealcoatings our Member Plants produce. The suggestions and related data contained on these pages are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. S.T.A.R., INC. will not be responsible for any indirect or consequential damages. We will either replace or refund the purchase price in the event the products are proved to be defective, at our option.



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