

★ PRODUCT BULLETIN

STAR-SEAL SUPREME PREMIUM ASPHALT PAVEMENT SEALER

GENERAL DESCRIPTION

STAR SEAL SUPREME is a premium grade asphalt pavement sealer for those jobs that demand outstanding performance and appearance year after year. **STAR SEAL SUPREME** has an extraordinary degree of toughness and water repellency unmatched by any competitive sealer. The hot blending of catalyzed rubber and select polymers with the refined tar is **STAR SEAL SUPREME** greatly enhances its toughness, flexibility and resistance to gasoline, oil, chemicals and deicing salts. The water repellency is the result of a specialty chemical that makes the cured coating water-resistant.

- Excellent Durability, Outstanding Toughness and Flexibility.
- Faster Drying Time, Uniform dark charcoal black color, even under marginal weather conditions.
- Ability of bridge over minor surface cracks in the pavement
- Resistance to re-emulsification in the presence of de-icing salts.
- Resistance to gas, oil, fat, chemicals, and ultraviolet degradation from sun rays.

OUTSTANDING FEATURES

The combination of the state-of-the-art technology in manufacturing and raw material selections translates into the following:

RECOMMENDED USES

- Industrial & commercial driveways and parking lots.
- Fast food restaurants and hotels
- Airfields, taxiways and shoulders, play areas and home driveways
- Service stations and truck terminals

Physical Properties and Constants

<u>Properties & Constants</u>	<u>Star Seal SUPREME</u>	<u>Specifications</u> ASTM 5727-00(Old RP 355e)
Solids, % by weight	50 min.	47-53
Ash, % solids, by weight	36-38	30-40
Solubility of Non-Volatile In Carbon disulfide	29-31	20 min.
Specific Gravity 25/25C	1.22-1.25	1.2 min.
Drying Time, (hours)		
To Touch	1	-
Full Set	6	8 max
Appearance wet	Dark Chocolate Brown	None
Color Upon drying	Dark slate black	None

STANDARDS & SPECIFICATIONS

STAR SEAL SUPREME exceeds the requirements of ASTM D-5727-95 (previously Federal Spec. RP-355e), when tested in accordance with the following ASTM standards

- D 2939 – Bituminous Base Emulsions for use as Protective Coatings
- D 490-77 – Specification for Refined Tar.
- D 3320-79 – Specification for Emulsified Refined Tar Pitch (Mineral Colloid Type).
- D 140 – Sampling of Bituminous Materials
- D 529 – Recommended Practice for Accelerated Weathering Test of Bituminous Materials.
- D 466 – Methods of testing films deposited from Bituminous Emulsions.
- D 1655 – Turbine fuels
- B 117 – Salt Spray (fog) Testing

APPLICATION

STAR SEAL SUPREME must be applied on a structurally sound Pavement by professional applicators.

Coverage Rates – 0.18 to 0.20 gal/sq. yard of the concentrated **STAR SEAL SUPREME**, in two-coat application. Coverage rates may vary depending upon the porosity and texture of the pavement surface.

Dilution – Maximum 35% by volume of the concentrated

STAR SEAL SUPREME with clean potable water.

Aggregates Addition – Clean silica sand or synthetic aggregates with an average grain fineness between 50 – 70 shall be added for increased traction and textured appearance.

Method – Mechanical or spray applicators, brush or squeegee.

RECOMMENDED SYSTEMS

Heavy Traffic Areas – Industrial &

commercial parking lots & driveways, airport taxiways, service stations, fast food restaurants All the coverage rates below are expressed as gallons of concentrated (undiluted) **STAR SEAL SUPREME** per square yard.

1st coat: STAR SEAL SUPREME with 3- 5 lbs. of aggregate per gallon of concentrated sealer. Coverage rate – 0.10 –0.12 gal./square yard.

2nd coat: Composition same as for 1st coat. Coverage rate- 0.09 –0.11 gal/square yard.

3rd coat: STAR SEAL SUPREME – Composition same as 1st & 2nd Coats. Coverage rate – 0.08 –0.10 gal/square yard.

Medium to light traffic areas- Home driveways, play areas, gas stations aprons, airfield and highway shoulders.

1st coat: **STAR SEAL SUPREME** with 2 – 5 lbs. of aggregate per gallon of concentrated sealer. Coverage rate – 0.10 – 1.12 gal/square yard.

2nd coat: **STAR SEAL SUPREME** – Composition same as 1st coat Coverage rate – 0.08 –0.10 gal/square yard.

CURING TIME

The cure time will vary according to temperature and relative humidity (R.H.). Under ideal drying condition (80 deg. F and 50% R.H.) allow at least,

1-2 hours between successive coats
20 – 24 hours after the application of the last coat prior to opening to traffic.

WEATHER LIMITATIONS

-Surface and air temperature should be a min. 50 degrees F. and rising.
-Do not apply on rainy, foggy or extremely humid days, or when rain is in the forecast within 24 hours.

CAUTIONS

Apply only on unsealed asphalt or surfaces previously sealed with refined tar or asphalt emulsion based sealers.

Do not sealcoat over gilsonite based sealers.

New asphalt pavements must be allowed to cure for at least 30 days in hot weather. Perform “water break test” (meaning water shall spread evenly on the surface) before sealcoating.

Not recommended for steeply inclined surfaces, as they may become slippery when wet.
Contains refined tar. May cause skin irritation.

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 Material Safety Data Sheet (M.S.D.S.) for details.

Store in airtight containers. Protect from freezing.

Keep out of reach of children.

PACKAGING

Bulk tanker and 55 gallons metal drums.

SHIPPING POINTS

All STAR plant locations

Warranty and Disclaimer- These specifications reflect successful performance experience, and are intended to provide a guide to approved construction practices and materials. However, there are no express warranties which extend beyond the description on the face hereof. Manufacturer disclaims any implied warranties of merchantability or of fitness for any particular purpose. Since manufacturer cannot control the manner of use of its products after their sale, manufacturer will not be responsible for any consequential or indirect damages. Rather, manufacturer will, at its option either replace the goods sold or refund the purchase price. No warranties will apply if the goods are in any way altered or modified after delivery by manufacturer.

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