



## **STAR-SEAL® HEAVY-DUTY, REFINED TAR SEALER**

STAR-SEAL® is a heavy-duty, Refined Tar emulsion (water based) sealcoating specifically designed to protect and beautify asphalt pavements. Based on carefully selected grades of Refined Tar, minerals, specialty additives and performance boosters, STAR-SEAL® has an extraordinary degree of toughness and water repellency, unmatched by any competitive sealer. STAR-SEAL® forms a tough, durable and flexible coating that protects asphalt pavements from the damaging elements of weather, water penetration, de-icing salts, traffic damage, surface raveling/checking, gasoline and other petrochemicals. The combination of state-of-the-art technology in manufacturing and raw material selection.

- Outstanding Toughness and Durability – STAR-SEAL® is widely known as the workhorse of the industry when it comes to the protection and preservation of asphalt surfaces.
- Superior Flexibility – Ability to bridge minor surface (non-working) cracks in the pavement to eliminate water penetration and extend the life of asphalt surfaces.
- Beautifies While It Protects – Dries to an appealing dark charcoal color that enhances the value of the property. Snow removal becomes easier and traffic markings last longer.

### **PROTECTION:**

STAR-SEAL® is a heavy-duty refined tar sealer that is specifically designed to protect bituminous pavements. Composed of high temperature refined tar pitch, select mineral fillers and surfactants, STAR-SEAL® forms a tough, durable and flexible coating that protects asphalt pavements from the damaging elements of weather, water, salts, gas and other petro-chemicals.

### **APPEARANCE:**

The dark charcoal black color of STAR-SEAL® improves the appearance of new and old asphalt pavements. Unprotected asphalt surfaces gradually lose their rich black color due to oxidation and weathering. STAR-SEAL® preserves the smoothness and resilience of asphalt surfaces and helps hide rough spots, small cracks, patches and surface depressions. Pavements coated with STAR-SEAL® look cleaner because rainfall washes dirt and debris easily from the smooth, non-porous surface. Traffic lines become more visible.

### **ECONOMY:**

STAR-SEAL® substantially reduces maintenance costs and at the same time, extends the life of asphalt pavements by as much as 300%. The cost of STAR-SEAL® is truly a minor expense when compared to the cost of pavement replacement. STAR-SEAL® also greatly extends the life of existing sound pavements.

### **RESISTS FUEL PENETRATION**

Resists gas, oil, salt and chemical penetration. Asphalt is a petroleum derivative, soluble in distillates such as gas, jet fuel and oil drippings. STAR-SEAL® prevents damage from distillates and chemicals.

### **PREVENTS WATER PENETRATION**

The intrusion of moisture into asphalt pavement structure accelerates its deterioration and is strongly related to pavement distress. The sealing of well-cured asphalt with STAR-SEAL® prevents the seepage of moisture from snow and rain, thus preventing damage from freeze-thaw cycles.

**QUALITY + PERFORMANCE + VALUE + INNOVATION + SERVICE**

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**STOPS OXIDATION**

Actinic rays in sunlight can oxidize the asphalt oils in pavement, causing brittleness and a resulting loss of aggregates which may rob up to 50% of the original asphalt thickness in just five years. A pavement sealcoated with STAR-SEAL® will resist oxidative degradation and retain its value.

**REDUCES COSTS & INCREASES VALUE**

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**APPLICATION:**

STAR-SEAL® must be applied to structurally sound pavements by experienced applicators. Asphalt pavement should be protected by two coats of STAR-SEAL®, however, the quantities and coverage rates must conform to manufacturer's detailed specifications. Average coverage rates are 0.18 to .20 undiluted gallons per square yard. STAR MACRO-FLEX®, latex additive and silica sand may be added for increased traction and durability.

**SPECIFICATIONS AND STANDARDS:**

STAR-SEAL® meets or exceeds...Federal Government Specification RP-355e (GSA-FSS), June 1987.U.S. Air Force and F.A.A. specifications State Specifications using refined tar emulsions for government projects and bridge decks. American Society for Testing and Materials (ASTM) D-3320-74T and D-490, COKE oven tar specification.



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