



## GSB-88® SEALER/BINDER PRODUCT DATA SHEET

### Technical Instructions & Specifications

#### Product Description:

GSB-88® Emulsified Sealer/Binder is a chemically engineered asphalt preservation product comprised of a cationic emulsion with Gilsonite, rejuvenators and specially selected plasticizers. This chemical colloid stabilized emulsion has been specifically formulated for sealing asphalt parking lots, city streets, roads, highways, airport aprons, taxiways, and runways. GSB-88® provides a durable yet flexible seal coat, while special plasticizers and oils penetrate and rejuvenate the asphalt pavements. The result is an emulsified sealer/binder that restores vital components to asphalt which are lost during the aging and oxidation process, providing a long wearing anti-oxidative seal. GSB-88® also helps to rebind the surface and thereby mitigate raveling issues. It dries to an absolute black color, which beautifies the pavement surface and provides tangible cosmetic benefit. Furthermore, GSB-88® has achieved Green Circle Certification®, which compares the lifespan of a standard asphalt road without GSB-88® treatments and a road with GSB-88® treatments.

**Availability:** GSB-88® is available in either a concentrate or ready to use form. The concentrate form allows large shipments via tank truck, ISO container, flex tank or railroad tank car. The concentrate form must be diluted with hot water prior to application.

**Specifications:** GSB-88® meets the requirements specified in P-608 of FAA AC# 150/5370-10G.

#### Tests on Sealer/Binder:

Saybolt Furol Viscosity at 77°F (25°C)	20 – 100 seconds
Residue by distillation or evaporation	≥ 57.0%
Sieve Test:	≤ 1.0%
pH, cationic <sup>1</sup>	6.5 maximum
24 hour Stability	≤ 1.0%
5 day Settlement	≤ 5.0%
Pump Stability <sup>2</sup>	Pass

#### Tests on Residue:

Viscosity at 275°F (135°C) <sup>3</sup>	1,750 cP maximum
Solubility in 1,1,1 Trichloroethylene	≥ 97.5%
Penetration	≤ 50 dmm
Asphaltenes	≥ 15%
Saturates	≤ 15%
Polar Compounds	≥ 25%
Aromatics	≥ 15%
Gilsonite content	≥ 20%

- (1) pH shall be used in lieu of the particle charge test which is sometimes inconclusive in slow setting bituminous emulsions.
- (2) Pumping stability is tested by pumping 1 pint (475 ml) of sealer material diluted 1 part concentrate to 1 part water at 77°F (25°C) through a 1/4-inch gear pump operating at 1,750 rpm for 10 minutes with no significant separation or coagulation.
- (3) @ 135°C using Brookfield spindle # 27, 100 rpm, reported in cP.