



Advanced Pavement Preservation Products

GSB-78 PAVEMENT SEALER AND REJUVENATOR

Technical Instructions & Specifications

Product Description: GSB-78 Pavement Sealer and Re-juvenator is a chemically engineered formulation of Gilsonite ore, specially selected plasticizers, and dilutents. GSB78 has been specifically formulated for use on asphalt parking lots. GSB-78 provides a durable Gilsonite sealer while special plasticizers and resins penetrate and rejuvenate asphalt pavements. The result is an asphalt pavement that has been sealed, locking in the rejuvenation that has occurred with the use of GSB-78. GSB-78 dries to an absolute, brilliant black appearance.

Dated
10/2008

Application Instructions

Equipment: GSB-78 may be applied with standard bituminous distributors and/or hand sprayed using standard tack pots. The equipment must be in good working order, and contain no contaminants or diluents in the tank prior to loading with GSB-78. The application equipment must be capable of maintaining predetermined flow rates and constant pressure during application. No special mixing equipment is required (see sanding below) as GSB-78 is ready to apply and will not separate or stratify in transit or storage.

Rate of Spread: Rate of spread, or application rate for GSB-78 may vary from 0.10 to 0.15 gallons per square yard, (60 square feet per gallon to 90 square feet per gallon). Exceeding recommended application rates should not be done without first contacting a manufacturer's representative or responsible and knowledgeable pavement maintenance civil engineer.

Addition of Sand: Sanding should be done at the same time GSB-78 is applied. A hard, highly fractured sand should be used. Because there are regional differences in sand characteristics, a knowledgeable local pavement maintenance engineer should be consulted to insure that the appropriate amount and type of sand is chosen to regain any lost skid resistance. Sanding is best done by mounting a sand slinger on the applicator and applying approximately 0.25 to 1 .25 pounds of sand per square yard or more if necessary during the spreading process.

Cure Time: Under normal conditions, cure time for GSB-78 is 1 to 4 hours. Sheltered or shady areas may require longer cure times.

Application Precautions: GSB-78 should not be applied to wet or damp pavement surfaces. Do not apply during rainy or damp weather, or when rain is anticipated within 4 hours after application is completed. Pavement surface temperatures should be 55°F (13°C) and outside air temperatures should be 40°F (4°C) and rising to prevent the GSB78 from browning during cure. GSB-78 may be applied at night provided the pavement surface temperatures and outside air temperatures are at least 77°F (25°C). Consult the Material Safety Data Sheet for fire and explosion data, health hazard data, first aid procedures, reactivity data, spill or leak procedures, waste disposal and use of personal protective equipment. Additional copies of the Material Safety Data Sheet can be obtained by calling ASI, toll free, at 1-800-972-2757.

Preparation of Pavement Surfaces: Repair and patch all major pavement defects. Scrape all oil spots to remove excess oil and dirt. Just before applying GSB-78 clean the asphalt surface of all loose dust, dirt, and other debris. All cracks, other than hairline cracks, should be filled with a suitable bituminous crackfiller. This may be done before, or after application of GSB-78.

Addition of other materials: GSB-78 has been chemically engineered to provide a restorative seal without the requirement of other materials or additives. Asphalt Systems, Inc. assumes no responsibility for problems arising from alteration of the original formula.

Clean up: GSB-78 may be removed with degreasing solvents. GSB-78 should be removed from skin using hand cleaners and skin creams.

Availability and Cost: For further information on availability and cost of GSB-78 contact Asphalt Systems, Inc., P.O. Box 25511, Salt Lake City, UT 84125-0511 or call toll free at 1-800-972-2757 or fax us at 801-972-6433.

Maintenance: Under normal wear and tear, a single application of GSB-78 properly applied, should not require reapplication for 3 to 5 years. Reapplications should be at the recommended rates. Regular preventative maintenance can extend the life of pavement indefinitely.

Warranty and Disclaimer: Asphalt Systems, Inc. warrants GSB-78 with respect to the quality stated herein. However, since the use of the product is beyond our control, our liability for damages shall in no case exceed the purchase price from Asphalt Systems, Inc., for the quantity of material consumed.

All products shipped shall meet or exceed the applicable specifications. Asphalt Systems, Inc., shall not be responsible for material after it has been stored in customer's tanks or for contamination from unclean trucks and shipping containers. Asphalt Systems, Inc., will assume no responsibility or liability for improper applications, skid resistance changes, thickening in storage, or any other conditions beyond our control.

This section sets forth the exclusive remedy for claims based on defects in or nonconformity of the product whether the claim is in contract, warranty, tort (including negligence) or otherwise. THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, WHETHER ORAL, WRITTEN, EXPRESS, IMPLIED OR STATUTORY, NO IMPLIED OR STATUTORY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL APPLY.

ASI shall not be liable for any special consequential, incidental, indirect or auxiliary damages, including, without limitation, loss of profits or revenues, loss of use of products or any associated equipment, cost of capital, cost of substitute goods, facilities, services, downtime costs or claims of the purchasers customers for such damage. ASI's sole liability, and any liability of ASI's suppliers, arising from the manufacture, sale, resale, use or application of the product shall not exceed the purchase price from ASI for the quantity of the product consumed.

Distributed By:



Specifications: GSB-78 Pavement Sealer and Rejuvenator is available in a ready to use form only. Shipment by 55 gallon drum, bulk tank truck, or bulk rail road tank cars may be arranged.

Specifications for GSB-78:

Kinematic Viscosity at 60. C (140. F), cts.....	1 0-30
Percent Water, Maximum.....	0.5
Percent Residue by Distillation.....	30-45

Tests on Residue from Distillation:

Penetration at 25°C (77°F), dmm.....	2-12
Softening Point, of.....	180-200
Solubility in 1,1,1 Trichloroethylene, %.....	99 min.
HC1 Precipitation Value.....	18-25

Storage and Handling Instructions

Either vertical or horizontal storage tanks may be used for the storage of GSB-78. Under normal circumstances, GSB-78 does not require heating for use. Optimum product temperatures for use are 65°F (18°C) to 100°F (38°C). If GSB-78 is to be heated prior to use, or while in storage, use steam coils, hot water coils, or hot oil coils with hot oil circulating at less than 200°F (93°C). Electrical heating elements may also be used, but must be moisture and explosion resistant. Never use open flame or closed flame firetube heaters with GSB-78. GSB-78 should not be heated above 100°F (38°C). During any heating process, GSB-78 should be stirred using a circulation pump, or mechanically agitated to prevent localized overheating. Positive displacement gear pumps are recommended for pumping GSB-78. GSB-78 contains flammable ingredients and must therefore be labelled, and during transport must carry a 1999 placard. Allow no smoking or open flames within 100 feet of storage tanks, transport trucks, and application equipment containing GSB-78. Electrical equipment used near GSB-78 must be explosion resistant or explosion proof.

