



GoldStar Asphalt Products  
1354 Jet Way  
Perris, CA 92571

## GSA Color Sealer Mix

### Technical data sheet

GSA Color Sealer Mix is an innovative coloring system for asphalt emulsion seal coat. GSA Color Sealer Mix when mixed with a commercial grade asphalt emulsion seal coat provides additional resistance to abrasion, and prevents damage to asphalt against the harmful effects of sunlight and oxidation. It prolongs asphalt pavement life, reduces maintenance costs, and beautifies the pavement by drying to harmonious earthtone colors and even textured surface coat. There are no toxic, carcinogenic agents, or organic solvents in GSA Color Sealer Mix. There are no hazardous fumes given off as the final product cures.

#### Product Benefits

- GSA Color Sealer Mix beautifies the pavement to harmonious earthtone colors.
- GSA color Sealer Mix contains no toxic, organic solvents or carcinogenic agents.
- GSA Color Sealer Mix is environmentally friendly in that it does not produce hazardous gases or fumes as the final product cures.
- Provides additional resistance to abrasion and prevents damage to asphalt against the harmful affects of sunlight and oxidation.

#### Pre-Application

For old asphalt pavement, repair and patch all major pavement defects. All cracks, other than hairline cracks (larger than 1/8 inch wide) should be filled with a suitable hot pour crack filler. Scrape all oil spots to remove excess oil and dirt. Just before applying the mixed product, clean the asphalt pavement surface of all loose dust, dirt, and debris.

-GSA Color Sealer Mix is supplied in a dry concentrate form. Approximately 50-lbs. Of GSA Color Sealer Mix are required per 20 to 40 gallons of asphalt emulsion seal coat. The amount of seal coat to be mixed with is dependent upon the particular asphalt emulsion seal coat being used (with or without carbon black) and the other color hue to be obtained.

#### - Seal Coat with Carbon Black:

1. Mix GSA Color Sealer Mix with UNCUT asphalt emulsion seal coating material in a conventional seal coating tank with agitator. One 50-lb. bag of GSA COLORED sealer Mix material mixes with approximately 20 gallons of seal coat. First add 50% of the water requirement, (this is the equivalent of 3 gallons of water to 20 gallons of seal coat) then add the GSA Colored Sealer Mix material slowly with the agitator operating. Mix for 10 to 20 minutes in order to obtain a completely homogenous mixture.

2. Add an additional amount of water necessary to achieve the viscosity required for application. This can be up to another 3 gallons per 20 gallons of original seal coat. To obtain the proper consistency the approximate total water is 30% by volume of the amount of seal coating material you started with. These water amounts should not be exceeded.

3. Add the amount of silica needed to achieve an appropriate mix for surface to be sealed. Total sand added should not exceed 10% of raw seal coat weight or 1 lb. For every gallon of seal coat. For a courser skid resistant surface 30 mesh silica is recommended.

4. Total product mixed should be approximately 30 gallons for one totally mixed GSA Colored Sealer Mix 50 lb. bag.

#### - Seal Coat with Carbon Black:

1. Mix GSA Colored Sealer Mix with UNCUT asphalt emulsion seal coating material in a conventional seal coating tank with agitator. One 50 lb. bag of GSA Colored Sealer Mix material mixes with approximately 38 gallons of seal coat or, approximately 12% of seal weight depending upon desired color brightness. First add 50% of the requirement, (this is the equivalent of 5 gallons of water slowly with the agitator operating. Mix for 10 to 20 minutes in order to obtain a completely homogenous mixture.

2. Add an additional amount of water necessary to achieve the viscosity required for application. This can be up to another 5 gallons per 38 gallons of original seal coat. To obtain the proper consistency the approximate total water is 25% for GSA Colored Sealer Mix by volume of the amount of seal coating material you started with. These water amounts should not be exceeded.

3. Add the amount of silica needed to achieve an appropriate mix for surface to be sealed. Total sand added should not exceed 10% of raw seal coat weight or 1 lb. for every gallon of seal coat. For a coarse skid resistant surface 30 mesh silica is recommended.

4. Total product mixed should be 52 gallons for 1 totally mixed GSA Colored Sealer Mix 50 lb. bag.

- Because of the variety of asphalt emulsion seal coat

products presently available, it is not possible to specify an exact mixing formula for optimum use of GSA Colored Sealer Mix with all seal coating products. Goldstar will advise a mixing formula if one quart sample of the Applicators seal coating product is submitted for analysis and trial.

### **Application**

1. The final mixed product should not be applied to wet or damp pavement surfaces. Do not apply during rainy or damp weather, or when rain is anticipated within 8 hours of application is completed. Pavement surface temperatures should be 50 F and rising before application of the final mixed product is initiated. Surface temperatures exceeding 90 f will create product streaking. At least three hours of daylight should remain after completing the application and the evening temperature should not go below 40 F.

2. The GSA Colored Sealer Mix should be applied in the same manner as conventional asphalt emulsion seal coatings with a spray, broom, squeegee, or seal coating machine.

### **Surface Protection and Maintenance**

- Maintenance will vary depending on a number of factors, including volume and intensity of traffic, geographic location, ultra violet light exposure and weather conditions.

- It is strongly recommended that routine maintenance schedule for all colored sealed asphalt be followed so that surfaces maintain a high quality appearance. Every 18-36 months, or as required by volume and intensity of traffic, colored asphalt installations should be inspected, cleaned and resealed. Under normal wear and tear, proper application of the final product should not require resealing for up to five years. Re-application should be at the recommended rates. Regularly preventative maintenance can extend the life of asphalt pavement indefinitely.

- the final mixed product that has not dried may be removed by rinsing tools, equipment, and skin with water. Dried product may be cleaned from tools and equipment by soaking or washing with odorless petroleum naphtha spirits, kerosene, or diesel oils. Steam cleaning equipment for spray bars and seal coat distributors employing de-greasing chemicals may also be used. Remove product from skin with industrial hand cleaners, or skin creams.

### **Coverage Rate and Drying Time**

- the coverage will between 30 and 80 feet per gallon of the final mixture depending on porosity and roughness of the surface to be covered. If the surface is extremely porous or extremely smooth two applications are recommended. For first time application, two coats are also recommended.

- cure time may be influenced by temperature and relative humidity. Under normal conditions, cure times are from two to eight hours. Sheltered or shaded areas may also require longer cure time. In two coat applications, allow the first coat to cure

before applying the second.

### **Shelf Life and Storage**

- GSA Colored Sealer Mix in dry form should be stored in a dry place where liquids are not able to penetrate the product. When GSA Colored Sealer Mix is mixed with asphalt emulsion seal coat it should be stored and handled like any standard asphalt seal coat product. Horizontal storage tanks equipped with centrally suspended horizontal agitators should be used. Positive displacement gear pumps capable of handling abrasive materials are recommended. Progressive cavity, diaphragm, and piston pumps may also be used. Since any asphalt emulsion may be damaged by freezing, it should be protected at all times when the temperature drops below 40 F.

### **Package Size**

- GSA Colored Sealer Mix is available in totes.

### **Technical data**

- Please refer to the M.S.D.S. hazard-related information.

### **Product handling**

- For complete instructions on handling and use, consult the corresponding Material Safety Data Sheet before using this product.

### **Warranty**

- GSA Colored Sealer Mix, a proprietary product, is warranted to be of uniform quality within manufacturing tolerances. Since control is not exercised over its use, no warranty, expressed or implied, is made as to the effects of such use. Sellers's and manufacturer's obligation under this warranty shall be limited to refunding the purchase price of that portion of material proven to be defective. The user assumes all other risks and liabilities resulting from use of this product. If you have any questions, please contact Goldstar Asphalt Products.



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