

DOMINION

19  82

PAVING & SEALING

Sealcoating

Purpose:

To provide a protective surface coating for existing, sound, asphalt pavement against damage caused by moisture and surface water penetration, oxidation caused by ultraviolet rays, winter's freeze/thaw cycle and chemical spills, surface raveling and check cracking.

Materials:

Rubberized, asphalt resin base coating (coating for bituminous pavements) which calls for a sealer that is impervious to gasoline, oils, and aliphatic type solvents that are usually harmful to asphalt surfaces.

Mineral aggregate, 4-5 lbs/gallon of the asphalt resin emulsion mineral aggregate shall be clean and dry silica sand free from foreign matter. This mineral aggregate shall have an American Foundry Sand fineness rate of 50 to 75 with no more than 2% retained on 30 mesh or coarser, no more than 12% passing 140 mesh and no more than 30% passing 200 mesh.

Water, the water used for mixing shall be clean and potable and shall be added in the minimum quantity sufficient for good application consistency, but not in excess of 35% of the volume of undiluted asphalt resin emulsion.

Surface Preparation:

All vegetation shall be removed from all surfaces to be sealed.

All surfaces to be sealed shall be thoroughly cleaned to remove all foreign debris (dirt, silt, gravel, leaves) using mechanically powered forced air blowers and steel bristle hand brooms.

Oil spots shall be wire brushed and shall be coated with an acrylic oil spot primer to help achieve sealer adhesion and prevent bleeding. Note: In case of excessive oil saturation the sealer will not bond to the pavement.

Application of Material:

Apply two coats of asphalt resin emulsion as stated in the materials section of these specifications.

The protective coating shall be applied at a total minimum application rate of 0.17 gallons/sq. yd. based on undiluted asphalt resin emulsion. This total shall be applied in a minimum of two coats.

The coating will be applied in dry weather, and only when the pavement at atmospheric temperatures are 50°F or above and are anticipated to remain above 50°F for forty-eight hours after completing application. Application will not be permitted when precipitation is anticipated before the film dries to a rain-resistant condition or when temperature and humidity conditions are such that the asphalt resin emulsion could not dry thoroughly before a minimum pavement temperature of 45°F occurs.

Adequate time shall be allowed for the first application to dry thoroughly (tack free) prior to a second application.

Upon completion of the second application all traffic will be excluded from the area for a minimum period of twenty four hours for good drying conditions before opening for use.