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Application Specification Tuffcoat Sealcoat

Description

This specification covers the application of **Tuffcoat Sealcoat**, a special mineral based asphalt emulsion and selected mineral fillers and pigments intended for reprofiling of asphalt roads, parking lots and walkways. When properly installed and cured **Tuffcoat Sealcoat** forms a tough, wear resistant, water proof surface which will protect asphalt residential streets, parking lots, playgrounds, walk-ways, tennis courts, and other recreational areas.

1.0 Materials

- 1.1 **Tuffcoat Sealcoat** conforms to the manufacturing specifications.
- 1.2 Water shall be fresh and potable.

2.0 Application

3.1 Pavement Condition

The asphalt pavement to be designed and constructed to provide proper support and adequate drainage

3.2 Patching and Crack-Filling

Oil-saturated pavement and unstable areas shall be removed and replaced. Cracks shall be repaired with a suitable crack filler prior the application of **Tuffcoat Sealcoat**.

3.3 Surface Preparations

All areas to be sealed with **Tuffcoat Sealcoat** shall be clean and firm prior to application. All areas to be treated shall be free from sand, dirt, oil build up, grease, standing water, and other foreign materials. Brooming, scraping, burning, blowing, or washing can remove these materials.

3.4 Tack Coat

If a tack coat is specified in the governing specifications, it must be applied. A tack coat using **Seal Coat Supply** tack oil will assure a superior bond to the asphalt surface.

3.5 Material Dilution

Tuffcoat Sealcoat as manufactured does not usually require dilution, except to achieve proper workability for application. Normally 10% dilution with water is max. amount allowable. However, in hot weather conditions the dilution may increased slightly (1 to 5%) to obtain proper application and to prevent the material from becoming too dry, which will make the spreading difficult.

In diluting **Tuffcoat Sealcoat**, proper mixing is absolutely essential. The result of this dilution must be a smooth homogenous mixture.

A more advanced procedure is the use of one of the sealing Seal Coat Machines now on the market, which can both mix and apply the **Sealcoat**. It is best to inquire as to the suitability of any commercial sealing machine, prior to attempting its use.

3.6 Typical Application Rates

Tuffcoat Sealcoat shall be applied to obtain an application rate of approximately 20 gallons per 1000 sq. ft. on a smooth clean surface, 30 gallons per 1000 sq. ft. on a medium surface and 40 or more gallons per 1000 sq. ft. on a rough surface. All estimates are based off a two coat application.

Sealcoat is generally applied with a walking type rubber-faced squeegee. Specially designed squeegees are available for this type of work.

A minimum application crew would usually be two people operating squeegees, one person supplying material, and one person opening the drums and mixing the material.

The material should be spread in a long windrow of about 3 to 4 inches in width along one edge of the area to be surfaced. With two squeegee people, a windrow of several hundred feet in length can be handled with out too much difficulty.

After the windrow is in place, the first person places the squeegee at a 45° angle to the length on the windrowed material, placing the center of the squeegee on the material. Pull the squeegee while walking parallel to the windrow, letting the slant of the squeegee move material over toward the squeegee person's feet. Prevent material from spilling over the outer (forward) edge of the squeegee. This will cause ridges to form when the material dries,

The second squeegee person places their squeegee at the same angle but on the surface of the freshly laid material, and follows the first person. The purpose of the second person is to smooth the surface and pick up any excess material left over by the first squeegee. This procedure is continued until the entire area is coated. The windrow should never be allowed to be depleted.

If the surface temperatures are excessive, (a dark surface can exceed 140° F, on a 90 - 100° day), it may be helpful to have another person in the crew with a hose equipped with a nozzle to fog the surface ahead of the material. This will reduce the need to excessively dilute the materials during periods of hot weather.

Excessive dilution of the Tuffcoat **Sealcoat** material will reduce the film thickness being applied to the asphalt pavement surface.

Drying will take about 4 to 6 hours in clear weather. It is not necessary for the material to be exposed to direct sun light. Tuffcoat **Sealcoat** works best in weather conditions that support water evaporating off the pavement. Temperatures should be 50 degrees F and rising with no imminent snow, rain, or freezing temperatures.

We recommend **Tuffcoat Sealcoat** be applied with two coats on all pavement surfaces. This application technique will provide greater profile restoration of pavement surfaces.

The finished surface shall be smooth, free of ridges, valleys and tool marks.

4.0 General Precautions

Permit each application to thoroughly dry before the next coat is applied.

Do not apply if rain is imminent, or if temperatures are below 50°F, and falling.

Do not use any additives not supplied by a Tuffcoat sealcoat material supplier.

5.0 Disclaimer of Warranties

The statements made in this specification or by any of our agents concerning this material are given for information only. They are believed to be true and accurate and are intended to provide a guide to approved construction practices and materials. As workmanship, weather, construction equipment, quality of other materials and other variables affecting results are all beyond our control, **Seal Coat Supply Inc.** does not make nor does it authorize any agent or representative to make any warranty of MERCHANT-ABILITY OR FITNESS for any purpose or any other warranty, guarantee or representation, expressed or implied, concerning this material except that it conforms to specifications distributed by **Seal Coat Supply Inc.** Buyers and user accept the product under these conditions and assume the risk of any failure, injury to person or property (including that of the buyer or the user), death, loss or liability resulting from the handling, storage or use or the product whether or not it is handled, stored or used in accordance with directions or specifications. Any liability whatever of Hawker Manufacturing, Inc. to the buyer or user of these product is limited to the replacement value of the product.

Architect's or Engineer's Short Specification

Asphalt pavement shall be prepared and sealed with **Seal Coat Supply Inc.'s Sealcoat** in accordance with options indicated on current printed A-60 Specifications.