TECHNICAL DATA SHEET

HIGH-PERFORMANCE ASPHALT COATING “SUPRA”

The High-Performance Asphalt Coating **SUPRA** is a surface application composed of a polymer-modified asphalt base and high-specification mineral aggregate. It is designed to restore the loss of fine aggregates and provide a smooth and safe riding surface on asphalt pavements. This product restores pavements with moderate deterioration; it is fast-drying and reinforced with ceramic fibers and polymer-modified asphalt, improving strength and extending service life.

System Benefits.

- Restores the loss of fines and slows down accelerated deterioration of asphalt surfaces.
- Waterproofs the surface.
- Protects the existing asphalt layer.
- Seals small and early-stage cracks
  Fast curing, allowing traffic within 2 to 4 hours.
- Provides a comfortable and safe riding surface.
- Excellent microtexture performance.
- High resistance to torsion and impact.
- Can be applied in layers to control drying time.

Recommended uses.

- Designed for application on asphalt surfaces with moderate to severe raveling on roads, highways, airport runways, taxiways, and parking lots.
- As a wearing surface for the protection of asphalt pavements in general.

Application.

Install safety and protection signage according to applicable standards.
Perform all necessary preliminary works such as patching, leveling, and crack sealing before application, allowing them to fully cure and dry to prevent oil exudation or moisture.

The **SUPRA** asphalt mixture has a thick paste-like consistency and is supplied in a workable form Before application, mix the components with an electric agitator until a homogeneous material is obtained. Do not dilute the product, as this could affect curing time and protection level. Apply using a mechanical or manual rubber squeegee.
Do not apply the product unless weather conditions are favorable.
Ensure the material is completely cured before exposure to snow, rain, or high humidity and traffic conditions.

Transport, Storage and handling.

- Keep out of reach of children.
- Do not allow the product to freeze before application.
- Do not mix with other products.
- Avoid prolonged skin contact.
- Keep containers tightly sealed when not in use.
- Store in a dry, cool place, protected from sunlight.
- For long-term storage (over 30 days), stir the material every two weeks to reincorporate components and reseal tightly afterward.
- In case of accidental ingestion, do not induce vomiting and seek medical attention immediately

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PHYSICAL PROPERTIES

Characteristic	Value	Standard
Water absorption	< 4%	ASTM D-570
Weight	9.9 – 14 lb/gal	ASTM D-1475
Cured coating thickness / gal / 100 s.f.	8 – 14 mils	ASTM C-836
Solids content	54 – 75%	ASTM D-2939
Biocide content	None	
VOC	< 10 g/l	BAAQMD Vol. 3 Lab 22

MINERAL AGGREGATE

Characteristic	Value
Crushing, %, minimum	100%
Sand equivalent, %, minimum	55%
Plasticity index, %, maximum	Non-plastic
Methylene blue, mg/g, maximum	12

BINDER

Emulsion characteristics	Value
Saybolt-Furol viscosity at 25°C; s	25-500
Settlement in 5 days; % difference, maximum	1
Settlement in 3 days; % difference, maximum	5
Asphalt cement content by mass, %, minimum	58
Naphtha content, %, maximum (residue after distillation)	1
Base asphalt characteristics	**Value**
Penetration at 25°C, in 100g, 5 s; 10^-1 mm	8-20
Softening point, °C, minimum	70
Dynamic shear rheology modulus at 86°C (G*/Send); kPa, minimum	1

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GENERAL APPLICATIONS RECOMENDATIONS

Although material proportions and dosage depend on each project, the following can be used as a practical guideline, always considering prior test sections, which must be approved by the contracting party.

Mixture Preparation.

- The recommended volumetric proportions to facilitate field measurements are:
- Quantities may be slightly adjusted to achieve better consistency and ease of application, with aggregate not less than 700 L and water not more than 230 L. All components must be thoroughly mixed prior to application.

Dosage.

Two types of aggregate are recommended depending on the degree of deterioration:

- coarse aggregate for areas with significant loss of fine aggregate and some loss of coarse material, and medium aggregate for areas where loss of fines is present but most coarse aggregate remains. Since the mixture can be applied in layers, coarse aggregate may be used for the first layer and medium aggregate for subsequent layers.
- For areas with severe loss of fines and very open macrotexture, coarse aggregate should be used and the application rate should be sufficient to fully cover the loss of material.

Since the mixture can be applied in layers, coarse aggregate may be used for the first layer and medium aggregate for subsequent layers.

For areas with severe loss of fines and very open macrotexture, use coarse aggregate, and the application rate should be sufficient to cover the loss of material.

In general, the total application rate of the layer, using a single type of aggregate or a combination, ranges from **3.0 to 5.0 L/m²**.

Application.

Prior work such as pothole repairs, leveling, and crack sealing must be completed in advance, allowing all treatments to fully cure and dry, ensuring no oil exudation or moisture is present. The surface must be completely dry. Fine cleaning must be carried out to remove any foreign agents that may affect product adhesion, such as dust or loose material; in areas with fuel or oil spills, a degreaser should be used. The product shall be applied with a mechanical or manual rubber squeegee.

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