Technical Data Sheet

SOLARPAVE

SMT-336

REVISED 3/27/25

PRODUCT DESCRIPTION

SolarPave is a uniquely formulated, highly durable, acrylic polymer emulsion pavement coating manufactured with UV resistant, highly reflective light-colored mineral pigments. SolarPave is fortified with anti-slip aggregate for both vehicle and pedestrian safety.

A SolarPave coated surface will provide a LEED CREDIT SOLAR REFLECTIVE INDEX (SRI) of 33% minimum. SolarPave features Reflective Pavement Technology (RPT) that cools pavement surfaces, reducing Heat Island Effects. SolarPave provides an economic solution for lowering surface temperatures in urban and suburban communities.

SolarPave provides enhanced night time visibility due to the lighter pavement surface color.

USES

SolarPave is designed for coating asphalt roads, streets, parking lots, driveways, multi-purpose recreational and play surfaces, walkways, bike paths, and more. SolarPave is not recommended for concrete surfaces.

ASTM	TEST DESCRIPTION	RESULT
ASSHTO T-45-56	Percentage Nonvolatile Soluble in Trichloroethylene by Weight	20-35%
-	Material Type - Acrylic Polymer Emulsion	-
D2939-7	Weight Per Gallon	10-12 lbs.
D2939-8	Residue by Evaporation	50-60%
D870	Water Resistance of Coatings using Water Immersion	No Delamination
D6904	Resistance to Wind Driven Rain	No Delamination
Volatile Organic Compounds	Determination of Volatile Organic Compounds (VOC) in Coatings	< 50 grams per liter
E1980	Solar Reflective Index (SRI)	33 min.

ESTIMATING MATERIAL REQUIREMENTS

One gallon of SolarPave coating will cover approximately 7-9 square yards (63-81 square feet) per coat when properly mixed and applied. A minimum of two coats are recommended. For two coats, one gallon of SolarPave will cover approximately 3.5-4.5 square yards (31-40 square feet). Ultimate coverage rate will be dependent upon porosity of pavement (smooth versus rough) and application method (squeegee versus spray).

SURFACE PREPARATION

Surface must be clean and free from loose material and dirt. Cracks should be filled with suitable crack filler (contact SealMaster Representative for recommendations).

MIXING PROCEDURES

Mix SolarPave in accordance with the following mix design (based on 100 gallons of SolarPave for ease of calculation):

SolarPave.....100 gallons
Sand (40-60 mesh).....200 lbs.

If required, a small amount of water may be added to facilitate application of material.

APPLICATION EQUIPMENT

SolarPave can be applied by spray equipment (capable of spraying coatings with sand), squeegee machines, hand squeegees or brushes.

APPLICATION PROCEDURES

Apply a minimum of two coats to properly cleaned surface. Allow first coat to dry completely before applying second coat. Additional coats may be applied for added durability if desired. Allow final coat of SolarPave to dry a minimum of 24 hours prior to opening to vehicle traffic.

APPLICATION CONDITIONS

Surface and ambient temperatures shall be 60°F and rising during application. Do not apply if temperatures are forecast to drop below 50°F in 24-hour period. Do not apply if rain is forecast within 24 hours of application.

WARRANTY AND DISCLAIMER

The statements made on this technical data sheet are believed to be true and accurate and are intended to provide a guide for approved application practices. As workmanship, weather, construction, condition of pavement, tools utilized, and other variables affecting results are all beyond our control, the manufacturer warrants only that the material conforms to product specifications and any liability to the buyer or user of this product is limited to the replacement value of the product only. The manufacturer expressly disclaims any implied warranties of merchantability or fitness for a particular purpose.