PAVEMENT REJUVENATION INTERNATIONAL, LLC

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MATERIAL CERTIFICATION

THIS IS TO CERTIFY THAT REJUVASEAL® COMPLIES WITH FEDERAL AVIATION ADMINSTRATION (FAA) ADVISORY CIRCULAR (AC) P-632 SPECIFICATION AND ENGINEERING BRIEF (EB) 44B.

REJUVASEAL IS CERTIFIED TO MEET THE 'BUY AMERICA' CLAUSE. REJUVASEAL IS MANUACTURED IN BUDA, TEXAS USING COMPONENTS FROM SOURCES IN THE UNITED STATES. A COPY OF THE FAA CERTIFICATION CAN BE OBTAINED AT - http://www.faa.gov/airports/aip/buy_american/media/buyAmericanConformance.xls

Pavement Rejuvenation International, LLC manufacturers of RejuvaSeal, a proprietary coal tar and coal tar oil mixture, using a high temperature coal-tar pitch conforming to the requirements of ASTM D 490, Grade RT-12 and fully meeting the property requirements of Table 1 & 2 of the FAA AC P-632 Specification, and Table 1 of the FAA EB 44B, shown below.

Table 1. Property Requirements of FAA P-632 Pavement Three (3) Years or Less in Age

Item #	Property of Recovered Binder [2]	Requirement	Test Method
1	Absolute Viscosity 60°C, P	≥ 25% Decrease [2]	ASTM D 2171
2a	Complex Modulus 60°C, G*		AASHTO T 315
2b	Viscosity 60°C, η = G* / ώ Pa·s		
2c	Phase Angle 60°C, δ, °	Report	

Table 2. Property Requirements of FAA P-632 Pavement More than Three (3) Years in Age

Item #	Property of Recovered Binder [2]	Requirement	Test Method
1	Absolute Viscosity 60°C, P	≥ 40% Decrease [2]	ASTM D 2171
2a	Complex Modulus 60°C, G*		AASHTO T 315
2b	Viscosity 60°C, η = G* / ώ Pa·s		
2c	Phase Angle 60°C, δ, °	Report	

Table 1. Property Requirements of FAA EB 44B

Test Property	Test Method	Requirements
Specific Gravity @ 25/25° C	ASTM D 70	1.04 min.
Viscosity Engler 50cc @ 50° C	ASTM D1665	8.0 max.
Water, % By Volume	ASTM D 95	2.0 max
Distillation % by weight to 170° C % by weight to 270° C % by weight to 300° C	ASTM D 20	20 max 20-50 60 max.
Softening Point of Residue Residue above 300° C, ° C	ASTM D 36	65 max

RejuvaSeal meets the Code of Federal Regulations Title 40 Part 59 National *Volatile* Organic Compound Emission Standards of less than 500 grams *VOC* per liter. Further, PRI certifies that the product does not contain, mercury, lead, halogenated solvents, any added creosote, or any added crude tar. No recovered or post-consumer use materials are in the mixture. RejuvaSeal is compatible with all Hot-Applied Joint and Crack Sealants meeting the ASTM D 6690 standards.

Application rates of RejuvaSeal are critical for successful rejuvenation and sealing of asphalt pavements and the construction methods stated in Federal Aviation Administration Section 4.1 of the Advisory Circular P-632 Specification and Section 3 in the Federal Aviation Administration Engineering Brief 44B, must be followed. Where runway or high-speed taxiway exits are treated, friction testing results must be assessed prior to full production application and must meet or exceed the Maintenance Planning Friction Level detailed in Federal Aviation Advisory Circular 150/5320-12.

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