

	<b>INSPECTION AND TEST PLAN</b>		<b>Doc ID:</b> FH-DP1-PM-ITP004B
	<b>Project:</b> MAPMP 2.0 DP1		<b>Rev:</b> 01
<b>Spray Seal</b>	<b>Construction Process:</b> Spray Sealing (Prime Coat, Primerseal and FibreDec)		<b>Prepared By:</b> James Kremers
<b>Client:</b> Melbourne Airport (APAM)	<b>Specification:</b> 60692389-PS-01-AV-0001 - Revision 1 (27 Mar 2023)		<b>Approved By:</b> Noriko Wood
	<b>Structure/Component:</b> Asphalt Pavement		<b>Date:</b> 29/08/2023

Lot No. \_\_\_\_\_ Lot Details: \_\_\_\_\_ Lot Size/Qty: \_\_\_\_\_ Date: \_\_\_\_\_


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		Freq.	Acceptance Criteria	Reference Documents/ Clause	Inspection/ Test Method	Conformance Record				AECOM	FH	Date
<b>1</b>	<b>Bitumen</b>											
(a)	Bitumen	Delivery Docket upon request	Bitumen must be Class 170 complying with the requirements of AS 2008	AECOM – MAPMP 2.0 DP1 Spec. CI 11.4.2	Verify	This ITP signed	<b>IP</b>	Lab Manager/SS Engineer				
(b)	Bitumen Emulsion	Delivery Docket upon request	Bitumen emulsion must comply with the requirements of AS 1160  Testing of the bitumen emulsion, as per ITP Bitumen Emulsions Manufacture Feb 2019 for Surfix 70 (for FibreDec), shall be done prior to releasing the product.  Ensure minimal storage time (ideally use within 24 hours of production).	VicRoads Technical Spec 408.08 (b)  ITP FH National – Bitumen Emulsions  CAG 010812 Section 2	Verify	This ITP signed	<b>IP</b>	Lab Manager/SS Engineer				
(c)	Cutback Bitumen	Delivery Docket upon request	Cutback bitumen must comply with the requirements of AS 2157 and must be Class AMC0 or AMC00	AECOM – MAPMP 2.0 DP1 Spec. CI 11.4.1	Verify	This ITP signed	<b>IP</b>	Lab Manager/SS Engineer				
(d)	PMB and Proprietary Bitumen	Delivery Docket upon request	Viscosity-grade binders must comply with the requirements of AS/NZS 2008. The class of PMB shall comply with the requirements of Austroads Technical Specification ATS-3110.	AECOM – MAPMP 2.0 DP1 Spec. CI 11.4.3	Verify	This ITP signed	<b>IP</b>	Lab Manager/SS Engineer				
<b>2</b>	<b>Materials</b>											
(a)	Cutter	Delivery Docket upon request	Any primer which is not prepared in a refinery must be prepared by mixing bitumen and cutter at the site	AECOM – MAPMP 2.0 DP1 Spec. CI 11.4.4	Verify	This ITP signed	<b>IP</b>	Lab Manager/SS Engineer				

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			<p>of the Works. The cutter must be commercial quality power kerosene or aviation turbine fuel (Jet A-1).</p> <p>No other type of cutter oil must be used under any circumstances. The cutter must be a clean, clear liquid containing no dissolved solids, foreign material or matter in suspension and must be liquid at 4°C.</p> <p>The Contractor must declare the amount of cutter used in the primer or primerseal to the Contract Administrator.</p>									
(b)	Fibreglass	Prior to commencing works	Ensure correct fibre is supplied.	CAG 010812 Section 2	Verify	Fibreglass datasheet	IP	SS Engineer/ Supervisor				
<b>3</b>	<b>Aggregate</b>											
(a)	Aggregate Specification	Delivery Docket upon request Maximum lot size 350t of same class and size	VicRoads Standard Specification Sections: <ul style="list-style-type: none"> <li>• 801 - Source Rock;</li> <li>• 831 – Aggregate; and</li> <li>• 832 - Sands</li> </ul>	VicRoads Technical Spec 408.11 (a)	Verify	This ITP signed	IP	Lab Manager/SS Engineer				
(b)	Aggregate Pre-coating Materials	Delivery Docket upon request	Distillate based product, cutback bitumen, emulsion based product or proprietary product.	VicRoads Technical Spec 408.09 (b) 408.11 (b)	Verify	This ITP signed	IP	Spray Seal Supervisor				
<b>4</b>	<b>Operation</b>											

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(a)	Material Test Reports	Prior to commencing works	Test reports for bitumen and proprietary emulsions must be submitted to the Contract Administrator.	AECOM – MAPMP 2.0 DP1 Spec. Cl 11.4.7	Verify	This ITP signed	HP	Spray Seal Engineer / Contract Administrator / Principle's Design Consultant				
(b)	Works Method Statement	Prior to commencing works	The Contractor must submit a Works Method Statement (WMS) to the Contract Administrator.	AECOM – MAPMP 2.0 DP1 Spec. Cl 11.5.1	Verify	This ITP signed	HP	Spray Seal Engineer / Contract Administrator / Principle's Design Consultant				
(c)	Calibration of Bitumen Sprayer	Prior to commencing works	Calibration Certificate to be provided.	VicRoads Technical Spec 408.07  AECOM – MAPMP 2.0 DP1 Spec. Cl 11.3.3	Verify	This ITP signed & Compliance Certificate	HP*	Spray Seal Engineer/ Supervisor				
(d)	Commencement of works & Surface Preparation	Prior to commencing works	Works shall not commence until the Contractor & Superintendent of works agree that the prepared surface is ready & fit for sealing.  Surface is free of loose material and the surface is dry.  Priming shall not be carried out within 24 hours of forecast rain.	VicRoads Technical Spec 408.04 (b) 408.09 (d)  AECOM – MAPMP 2.0 DP1 Spec. Cl 11.5.2, 11.5.3	Verify	This ITP signed	HP	Spray Seal Engineer / Contract Administrator / Principle's Design Consultant				

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(e)	Minimum Temperature	Prior to commencing works	The primer must be applied only when the surface temperature of the base course is at least 15°C and is expected to remain in excess of 15°C for the duration of the application of the primer.	AECOM – MAPMP 2.0 DP1 Spec. Cl 11.5.2	Verify	This ITP signed	IP	Spray Seal Engineer/ Supervisor				
(f)	Primer Application Rate	All works carried out	The primer must be applied to the base course surface at an application rate of at least residual bitumen of 1.2 L/m2, measured at 15°C for priming crushed rock base.	AECOM – MAPMP 2.0 DP1 Spec. Cl 11.5.4.2	Verify	This ITP signed	IP	Spray Seal Supervisor				
(g)	Application of Primerseal Aggregate	All works carried out	The primerseal must penetrate the prepared surface uniformly. The residual bitumen on the surface must be sufficient to retain the sealing aggregate firmly, with no loose aggregate left on primerseal after rolling and sweeping.  After rolling, the sealing aggregate must be embedded into the film of residual bitumen and the surface for no more than 50% of its Average Least Dimension.	AECOM – MAPMP 2.0 DP1 Spec. Cl 11.5.6	Visual Inspection	This ITP signed	IP	Spray Seal Supervisor				
(h)	Removal of loose aggregate	All works carried out	The primerseal must be swept and surface to be dry prior to the application of the next treatment. Sweeping must leave no loose aggregate on the surface.	AECOM – MAPMP 2.0 DP1 Spec. Cl 11.5.6	Visual Inspection	This ITP signed off	IP	Spray Seal Supervisor				
6	FibreDec Specific Items											

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(a)	FibreDec Box Check	Each Lot	Applicator box is clean and rubber skirts are free from binder/glass build up	CAG 010812 Section 2	Visual Inspection	This ITP signed	IP	Spray Seal Engineer/ Supervisor				
(b)	Aggregate spreading	Each Lot	The correct aggregate spread rate shall be measured and assessed.	AGTP Part 4K 6.7 408.1 408.13.e	Verify	This ITP signed	IP	Spray Seal Engineer/ Supervisor				
(c)	Removal of loose aggregate	Each Lot	All areas – within 8 hours of sealing unless otherwise agreed with the Superintendent. <b>NB:</b> For seal of nominal size ≥ 10mm, < 40 loose stones/m2 to remain after removal of loose aggregate. For seal of nominal size ≤ 7mm, < 60 loose stones/m2 to remain afterwards.	VicRoads Technical Spec 408.14	Visual Inspection	This ITP signed	IP	Spray seal Supervisor				
<b>7</b>	<b>Post-Operation</b>											
(a)	Records	Each Lot	Job completion report (Spray Sheets) to be submitted within seven days of completion of sealing works.	VicRoads Technical Spec 408.17	Verify	Spray Sheet Record	IP	Spray Seal Engineer				
(b)	Primer Curing	Each Lot	Following the application of the primer, the surface must be allowed to cure without being disturbed for a period of not less than 48 hours or longer as may be necessary to attain penetration into the surface and evaporation of the volatiles from the primer.	AECOM – MAPMP 2.0 DP1 Spec. CI 11.5.4.4	Verify	This ITP signed	IP	Spray Seal Engineer				

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Comments												
<b>ACTION POINT LEGEND:</b> HP/S HP/C WP AP IP TP SCP		HOLD POINT - SUPERINTENDENT HOLD POINT – CONTRACTOR (Internal FH)) WITNESS POINT APPROVAL POINT INSPECTION POINT TEST POINT SURVEY CONFORMANCE POINT Work shall not proceed past the HP until released by the Superintendent Work shall not proceed past the HP* until released by FH An inspection point that may be witnessed by the Superintendent Written or verbal approval given by the Superintendent Formal Inspection activity to be undertaken and recorded Product compliance test to be undertaken and recorded/reported A qualified surveyor to check product/section/structure and report										
<b>FINAL INSPECTION: (LOT CONFORMANCE SIGN OFF)</b>		This is to verify that the final inspection has been carried out in accordance with the FH's Quality Procedures and Project Quality Strategy and the product is hereby certified to conform with the contract specifications: <div>           Print Name: _____           Position/Company: _____         </div> <div>           Signature: _____           Date: _____         </div>										