

	<b>INSPECTION AND TEST PLAN</b>		<b>Doc No. : ITP - 001</b>	
	<b>Midland Hwy Upgrade</b>			Rev: 0
<b>Spray Seal</b>	<b>Construction Process: <i>Spray Seal</i></b>			Prepared By: Andrew Hinkley
<b>Client: Fulton Hogan Construction</b>	<b>Specification: <i>Austrroads Part 4K Seal Guide &amp; Vicroads Specification 408</i></b>			<i>Approved By: Rob Nucifora</i>
<b>Project: Resurfacing</b>	<b>Structure/Component: <i>Bituminous Surfacing</i></b>			Date:

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


Item No.	Task/Activity Description	Inspection/Test					Action Point	Responsibility	Comments	Checked by:			
		Freq.	Acceptance Criteria	Reference Documents/ Clause	Inspection/ Test Method	Conformance Record				FHI	Client	Superintendent	Date
1	Bituminous Materials												
	Binder	Delivery Docket upon request	• Verify binder being used matches that specified on the job pack	408.08	Verify	This ITP signed off & Delivery Docket	IP	Spray Seal Supervisor					
2	Aggregate												
(a)	Aggregate Specification	Delivery Docket & Maximum lot size 350t of same class and size	VicRoads Standard Specification Sections: • 801 - Source Rock; • 831 – Aggregate; and • 832 - Sands	408.11 (a)	Verify	This ITP signed off & Delivery Docket	HP/C	Spray Seal Engineer					
(b)	Aggregate Pre-coating Materials	All works carried out & Delivery Docket upon request	Distillate based product, cutback bitumen, emulsion based product or proprietary product. Supply plant pre-coated aggregate from supplier or field pre-coated aggregate from stock site	408.09 (b) 408.11 (b)	Verify	This ITP signed off & Delivery Docket	IP	Spray Seal Engineer /Supervisor					
3	Operation												
(a)	Rates of Application	All works carried out	The Contractor shall determine the rates of application in accordance with the procedures set out in the Guide to Pavement Technology: Part 4K. Rates shall be expressed in L/m <sup>2</sup> and residual binder at 15°C. <b>At least 1 week prior, rates of application, aggregate and rates for pre-treatment to be reviewed by Superintendent.</b>	408.13 (a)	Verify	This ITP signed off & Rate of Application for Residual Binder at 15°C	HP/S	Spray Seal Engineer					

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(b)	Calibration of Bitumen Sprayer	Prior to commencing works	Calibration Certificate to be provided	408.07	Verify	This ITP signed off & Compliance Certificate	WP	Spray Seal Engineer/ Supervisor											
(c)	Commencement of works	Prior to commencing works	<ul style="list-style-type: none"><li>• Prior to the works being carried out, the Contractor shall provide written confirmation of the works that will be undertaken the following day and obtain agreement from the Superintendent to any variation in the rates of application to those provided under Cl. 408.13(a)</li><li>• Works shall not commence until the Contractor &amp; Superintendent have agreed that the road or pavement surface is fit &amp; ready for surfacing no more than 24 hours prior to the works occurring</li><li>• DSG Specification Section 310 – Preparation of Granular Pavement for Bituminous Surfacing shall be satisfied for initial seals</li></ul>	408.04 (b)	Verify	This ITP signed off	HP/S	Spray Seal Engineer/ Supervisor											
(e)	Minimum Temperature	Prior to commencing works	<div>Minimum Temperature to meet criteria as set out in Table 408.131</div> <table><tr><th>Treatment Type</th><th>Min. air &amp; pavement Temp. (°C)</th></tr><tr><td>Primes</td><td>10</td></tr><tr><td>Initial seals (single/single)</td><td>15</td></tr></table>	Treatment Type	Min. air & pavement Temp. (°C)	Primes	10	Initial seals (single/single)	15	408.13 (d)	Verify	This ITP signed off & Temperature Check	IP	Spray Seal Supervisor					
Treatment Type	Min. air & pavement Temp. (°C)																		
Primes	10																		
Initial seals (single/single)	15																		

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			Initial seals (double/double)	10										
			C170 and crumb rubber modified PMBs	15										
			Other PMBs	20										
(f)	Spraying Binder	Each Run	Complete spray sheet			Dip sprayer after each run		IP	Sprayer Operator					
(g)	Spreading aggregate	Each load	Complete spray sheet			Measure spread of aggregate		IP	Supervisor					
(h)	Removal of loose aggregate	All works carried out	(AADT)	Max. Time Limit	408.14	Verify	This ITP signed off	IP	Spray Seal Supervisor					
			>5000 and all Freeways	Within 8 hours of sealing										
			>2000 to 5000	Within 24 hours of sealing										
			>500 to 2000	Within 48 hours of sealing										
			<500	Within 5 days of sealing										
4	Post-Operation													
(a)	Records	Each Lot	Job completion report (Spray Sheets) to be submitted within seven days of completion of sealing works.		408.17	Verify	Spray Sheet Record	WP	Spray Seal Engineer					

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(b)	Acceptance of work- Binder rates	Each Lot	Actual vs design rates. Variation between actual & design assessed by Table 408.131	408.15 (a)	Verify	Spray Sheet Record	IP	Spray Seal Engineer					
(c)	Acceptance of work- Surface Texture	Each Lot	Acceptance - visual assessment or <b>(where required)</b> as per Table 408.152	408.15 (b)	Verify	This ITP signed off	IP	Spray Seal Supervisor					
(d)	Acceptance of work- Aggregate retention	Each Lot	Acceptance -visual assessment or <b>(where required)</b> as per Table 408.153	408.15 (c)	Verify	This ITP signed off	IP	Spray Seal Supervisor					
(e)	Acceptance of work- Visual Uniformity	Each Lot	Provide a surface with uniform colour, texture and consistent appearance	408.15 (d)	Verify	This ITP signed off	IP	Spray Seal Supervisor					

<b>Comments</b>	

<b>ACTION POINT LEGEND:</b>	HP/S	HOLD POINT - SUPERINTENDENT	Work shall not proceed past the HP until released by the Superintendent
	HP/C	HOLD POINT – CONTRACTOR (Internal FH))	
	WP	WITNESS POINT	Work shall not proceed past the HP* until released by FH
	AP	APPROVAL POINT	An inspection point that may be witnessed by the Superintendent
	IP	INSPECTION POINT	Written or verbal approval given by the Superintendent
	TP	TEST POINT	Formal Inspection activity to be undertaken and recorded
	SCP	SURVEY CONFORMANCE POINT	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:	
	Print Name: _____  Signature: _____	Position/Company: _____  Date: _____