

Client	Transport for New South Wales	INSPECTION AND TEST PLAN FOR:	Work Area:						
Contract No.#		R107 Sprayed Bituminous Surfacing (with							
Contract		Polymer Modified Binder)	Inspection and Test Plan Number / Lot No:						
Workplace Name	A183 - New Dubbo Bridge		ITC-18 R107 Sprayed Bituminous Surfacing (with Cutback Bitumen)						

Legend:	W	= Witness	H = Hold	S = Surveillance	ACPL = Abergeldie						S/C = Subcontractor
		Document						Inspection	– Sign & D	ate	
Activity No.#	Description	Description Reference / Applicable Standard Acceptance Criteria		ia	Frequency/ Process Held	S/C	ACPL	Client	Date	Verifying Records	
1. M	laterial Requirements										
1.1	Bituminous Materials and Polymer Modified Binder	R107 CI 2.1	sample at the point of de Principal. The binder for seals and Specification TfNSW 32: Torsional recovery and seals R107/A1.2 at the point of Do not heat binder above lesser.	elivery and provide a representation of the seals must be in accordance with the seal	or each delivery used in the work. Also we sample of the delivered binder to the with Annexure R107/A1 and must conform to to the requirements of Annexure ritten recommendations, whichever is the that ensure prevention of segregation and aterials.	Once / Prior to supply of Bituminous Materials		S	S		Evidence of Conformity
1.2	Aggregate Precoating Agent and Bitumen Adhesion Agent	R107 CI 2.2 TfNSW 3268 TfNSW 3269	modified binder specified	d in Annexure R107/A.	on TfNSW 3268 for the grade of polymer FfNSW 3269 for the grade of polymer	Once / Prior to supply of aggregate precoating agent and bitumen adhesion agent		S	S		Certificate of Conformity
1.3	Aggregate	R107 CI 2.4 TfNSW 3151	the Lot is incorporated in When requested, provid	n the Works. e a sample to the Principal from tunt of material obtained for each s	ce with TfNSW 3151, before aggregate from the same Lot by riffling or quartering your sample must be in accordance with the	Once / Prior to supply of aggregates		S	S		Test Results



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1.4	General Materials and Design of Bituminous Surfacing	R107 Cl 3	and submit the design details tests for seals. Design applica	Carry out the design of bituminous surfacing in accordance with TfNSW Form 395K as appropriate and submit the design details including all results from texture testing for reseals and ball embedment ests for seals. Design application rates are the "nominated application rates" and materials used for the design are the "nominated materials".					S		TfNSW Form 395K
1.5	Submission of Nominated Design	R107 Cl 3.3	least seven days prior to the constituent material;	(b) Verification of conformity of the nominated materials;				S	S		Design Certificate
1.6	Sealing Operations using Proposed Design	R107 cl 3.2.3	bituminous surfacing design to	ogether with certification for	1.2.4 (Project Quality Plan) and the proposed the nominated materials and design e commencement of sprayed bituminous	Once / 7 working days prior to commencement of sprayed bitumous surfacing work		Н	Н		Project Quality Plan Desig Verification Documentation
1.7	Review of Nominated Application Rates	R107 Cl 3.3	actual aggregate to be used ir	ch Lot of aggregate is to be ing design at each location nstead of the ALD value of		Once / Prior to spray sealing works		Н	Н		Aggregate Lot Details Target Application Rates

Issue Date: Aug/2016



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2. F	Process Control										
2.1	Application of Sprayed Bituminous Surfacing	R107 Cl 4.2	Carry out sprayed bituminous (a) provide a uniform applicati (b) provide a uniform cover of (c) achieve effective bond bet	on of binder with adequate a aggregate particles (except		Once / Prior to Application		S	S		Project Quality Plan
2.2	Work Records	R107 CI 4.4		erbinder, binder and aggrega d by your representative as a	orm 500E. ate applied immediately after every sprayer a true record of the work performed. Supply	Once / Prior to Lot Closure		S	S		TfNSW Form 500E

Page 3 of 7



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3.	Preparation of Pavement Surface	R107 CL 5 2	rotary road broom or suction additional sweeping by han 300 mm beyond each edge. Where sealing work is carrive remaining loose material from the remaining loose material from the raised pavement patches are raised pavement markers. Measure and record pavement place a spirit or mercury-incontact with the pavement. Undertake spraying of polynabove 20oC for at least one specified minimum pavement.	on broom to provide a uniformly and, using stiff bass or similar brown the area to be sprayed. ied out on localised areas and, om the pavement surface immore of foreign material from the surface immore temperatures at regular in a splass thermometer or other surface immore modified binders only if the hour before commencement temperature for spraying displays the stiff of the surface in the surface immore modified binders only if the hour before commencement temperature for spraying displays the stiff of the surface in the s	uitable type of thermometer in dir ne pavement temperature has be t of spraying and does not fall bel	rry out t least e any reas. remove rect en at or low the	Once / Prior to application		S	S		Visual Inspection

Page 4 of 7



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4. A	pplication of Spray Se	ealing, Binder and	Aggregates								
1.1	Application of Sprayed Bituminous Surfacing	R107 CI 6	Measure and record the tempositable means, accurate to below the minimum temperate the binder may be heated professed of the material in the heated by the bitumen adhesion age.	d by Transport for NSW. Derature of the polymer mode within 2.5% over the range cure recommended by the noviding safe heating practical ating tank is at least 250 meent, cutter oil or flux oil is to	dified binder using a thermometer or other 100-240C. If the temperature of the binder is nanufacturer of the polymer modified binder, es are adopted. Do not use burners unless the m above the tops of the heating tubes. be included, add it to the polymer modified of at least 700 litres per minute for fifteen	Once / Prior to Application of Spray Seal		S	S		TfNSW Form 354
.2	Application of Polymer Modified Binder	R107 CI 7	rate and rolled initially within Do not spray polymer modific such longer period as require Do not spray polymer modific the primerbinder unless the reless than 2.5 mm. The type of polymer modified Base nominated and target a of polymer modified binder madhesion agent or added oils Where bitumen adhesion agent adjust the application rate of mixture.	five minutes of spraying poet binder over a prime untilled for the primer to become ed binder over a primerseal nardness of the primerseal	at least 48 hours after spraying the primer or completely dry. until at least twelve months after spraying measured using Test Method TfNSW T271 is d in Annexure R107/A1. ies of polymer modified binder on the volumes of 15C and do not include any bitumen en added to the polymer modified binder, low for the quantity of additives in the	Once / Prior to application of Polymer Modified Binder		S	S		TfNSW Form 500E

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4.3	Application and Incorporation of Aggregate	R107 CI 8	Use only precoated aggregate. The application of aggregate must proceed after spraying is commenced and must be completed and rolled initially within five minutes of spraying the binder. Apply the aggregate of the specified nominal size and at the target aggregate application rate. The method to determine the actual aggregate spread rate must conform to Test Method TfNSW T274 or a method approved by the principal and detailed in the PROJECT QUALITY PLAN. Report the aggregate spread rate as actual rate using TfNSW Form 500E. After the aggregate has been applied to each section of the work, carry out initial rolling with two or more dual axle smooth pneumatic tyred multi-wheel rollers of mass greater than 7 tonnes without ballast and minimum tyre pressure of 550 kPa. Continue initial rolling until the aggregate is firmly embedded in the binder Roll the cover aggregate with pneumatic tyred multi-wheel rollers at not less than eight passes within one hour of spraying at every point on the surface.					Once / Prior to incorporation of aggregate		S	S		TfNSW Form 500E Project Quality Plan
4.4	Sweeping and Loose Aggregate Removal (10mm and 14mm Seals / Reseals Only)	R107 CI 9	ne num oat, de able R areas w ave ter oning in	ber of loose aggregate partermined in accordance with 107.1: Table R107.1: Urban areas Other medium to high the Low traffic (≤ 250 v/l/s) there speed limits exceed in porary speed zone 'loose' in place until the maximum	rticles (per m2) not including ith Test Method TfNSW T27 1 – Maximum Allowable Location (>250 v/l/d) d) 60 km/h and that are opened estones' and 'slippery' warning allowable loose aggregate it location prior to commence	20 particles/m ² 30 particles/m ² 40 particles/m ² It to traffic prior to final sweeping musting signs and temporary 60 km/h specific	r in	Once / Prior to Lot Closure		W	W		Visual Inspection
DE\//=*/	V DD0 I507 14411												
	Y PROJECT MANAG onformances?	YES F	NO	Nos:		Closed Out ☐ YES	Пис)					

REVIEW BY PROJECT MANAGER										
Any non-conformances?	Clo	osed Out YES] NO							
All work has been satisfactorily completed.	□NO									
Name	Signature	Date								

Page 6 of 7



Page 7 of 7