

		Inspection and Test Plan - Coloured Surface Treatments										Document # 1145-C200-FUL-QAC-ITP-0087	
		Revision : 00 Date : 23/09/2024											
Client: MRPV Project: Craigieburn Road Upgrade Contract No: CONS-1145		Construction Process: Coloured surface treatments Specifications: Project Specification Sections 1160, and 3070.7 VicRoads Specification Section 175, 721, 431, RDN 03-07 Structure / Component: Coloured surface treatments					Prepared by: Name: Shaman Costa Position: Site Engineer Date : 1/05/2024		Reviewed by : Name: Omar El-Khub Position: Project Engineer Date : 22/09/2024		Approved by : Name: Dirk Slabbert Position: Completions & Quality Manager Date :		
Lot No: ITP-087-AX-LOT-XXX		Lot Title:		ITP-087-AX-LOT-XXX - Desc		Location: From () to ()			Lot Size/ Quantity:		Lot Opened Date:		
Item No.	Task/Activity Description	Frequency	Inspection / Controls and Verification Detail				HP/ WP/ AP/ IP/ TP/ SCP	Responsibility Project Engineer Site Engineer Superintendent Surveyor Foreman	Checked by:				
			Acceptance Criteria	Reference Documents	Inspection / Test Method	Record of conformity			Superintendent	Fulton Hogan	FH's Sub-contractor	Date	
1	Preliminary Works												
1.1	Check that current revision drawings are being used	Prior to commencing works	Issued For Construction (IFC) drawings, & latest available revision used.				IFC Project Drawings, PS3070.07	Document review	ITP signed Latest revision IFC drawings	IP	Site Engineer / Site Foreman	N/A	
2	Preliminaries - Materials												
2.1	Material approval - Binder	Prior to commencing site preparation	The following primer and binder details shall be provided to the Superintendent at least 14 days prior to the start of works: (i)priming materials type and source (ii)binder type and source (iii)manufacturer's recommendations/instructions for priming material supply and placement (iv)manufacturer's recommendations/instructions for binder mix quantities and tolerances on mixing components (v)manufacturer's recommendations/instructions for mixing of binder and components (vi)manufacturer's recommendations/instructions for pot life of binder, i.e. time of mixing to time of spreading (vii)manufacturer's recommendations/instructions for placement of binder including application rates and tolerances and placement temperatures (viii)manufacturer's recommendations/instructions for curing (ix)manufacturer's recommendations/instructions for accelerants (if applicable) (x)manufacturer's recommendations/instructions for supply and placement of protective sealers (xi)type of coloured pigment.				IFC Project Drawings, PS3070.07 VR431.03	Document review	ITP signed Latest revision IFC drawings	WP	Site Engineer/ Superintendent		
2.2	Material approval - Aggregate	Prior to commencing site preparation	The aggregate shall be clean, free from dirt, clay and organic matter, of uniform shape and quality, resistant to fuel and oils spills from traffic, able to withstand traffic stresses without damage, and able to be swept using a mechanical broom and cleaned with high pressure water equipment without damage. The aggregate may be pigmented to provide a colour match of the final product. The following aggregate details shall be provided to the Superintendent at least 14 days prior to the start of works: (i)aggregate type, source and gradation (ii)manufacturer's or Contractor's recommendations/instructions for placement of aggregate including spread rate (iii)Polished Stone Value (PSV) – aggregates shall have a minimum PSV of 54				IFC Project Drawings, PS3070.07 VR431.03	Document review	ITP signed Latest revision IFC drawings	WP	Site Engineer/ Superintendent		
2.3	Material - Material safety data sheets	Prior to commencing site preparation	Copies of Material Safety Data Sheets (MSDS) for priming materials, binders, aggregate coatings, protective sealers and any other work materials shall be provided to the Superintendent prior to the start of works. Any requirements for environmental protection measures as recommended by the material manufacturer shall be undertaken. All materials shall be used and stored in accordance with the manufacturer's instructions, and MSDSs.				IFC Project Drawings, PS3070.07 VR431.06	Document review	ITP signed Latest revision IFC drawings	WP	Site Engineer/ Superintendent		
3	Coloured Surface Treatment - Application												
3.1	Site preparation	Per lot	All loose material, grit, stones, vegetative matter, and rubbish shall be removed from the area of works prior to placement of the coloured surface treatment. The site may be further cleaned and prepared as required. Cleaning and preparation shall not cause structural damage to the pavement. All cleaning agents and collected material shall be removed from site and disposed in accordance with Environment Protection Authority (EPA) Victoria requirements for the type of waste generated. Existing pavement markings shall be masked to ensure the coloured surface treatment is not applied to the markings. All Raised Reflective Pavement Markers (RRPMs) shall be removed from the area of works prior to any coloured surface treatment being placed. New RRPMs shall be reinstated after the application of the coloured surface treatment.				IFC Project Drawings, PS3070.07 VR431.07	Document review & Site inspection	ITP signed	IP	Site Engineer/Foreman	N/A	
3.2	Site preparation - Service pits, valve covers	Per lot	Service pits and valve covers less than 0.03 m2, and drainage grates and frames shall also be masked. Larger pit and valve covers shall be covered with the coloured surface treatment. All lifting mechanisms and joints between the lid and frame shall be masked and protected such that the coloured surface treatment does not impede lifting and replacing lids.				IFC Project Drawings, PS3070.07 VR431.07	Document review & Site inspection	ITP signed	IP	Site Engineer/Foreman	N/A	
3.3	Site preparation	Per lot	The Superintendent shall agree to the method of removal and any pavement repairs for pavement markings and raised reflective markers (RRPMs) prior to these works occurring.				IFC Project Drawings, PS3070.07 VR431.07	Document review & Site inspection	ITP signed	HP	Superintendent		
3.4	Placement - Coloured surface treatments	Per lot	Coloured surface treatments shall not be placed until the Superintendent agrees that the prepared road surface is ready for surfacing.				IFC Project Drawings, PS3070.07 VR431.08	Document review & Site inspection	ITP signed	HP	Superintendent		
3.5	Placement - Coloured surface treatments	Per lot	Coloured surface treatments shall be applied to produce a visually uniform coloured and textured surface. The edges of the work shall provide a neat and clean line onto the adjacent surface.				IFC Project Drawings, PS3070.07 VR431.08	Document review & Site inspection	ITP signed	IP	Site Engineer/Foreman	N/A	
3.6	Placement - Application rate	Per lot	All application rates for the work involving placement of priming materials, binder, aggregates and accelerants shall be provided to the Superintendent.				IFC Project Drawings, PS3070.07 VR431.08	Document review & Site inspection	ITP signed	AP	Site Engineer/ Superintendent/FH's Sub-contractor		
3.7	Placement - Temperature	Per lot	The pavement temperature of the site shall be measured and recorded at least every 2 hours during the works. The temperature shall be measured using an infrared temperature gauge accurate to +/-2°C. The temperature results shall be provided to the Superintendent. All materials shall be placed within any temperature limits recommended by the manufacturer.				IFC Project Drawings, PS3070.07 VR431.08	Document review & Site inspection	ITP signed	AP	Site Engineer/ Superintendent		
3.8	Clean up	Per lot	The Superintendent shall agree the site is neat, tidy and free of excess aggregate prior to opening to traffic.				IFC Project Drawings, PS3070.07 VR431.10	Site inspection	ITP signed	HP	Superintendent		
3.9	Protection of works	Per lot	Work to be protected by appropriate means until it is trafficable.				VR721.A11	Site inspection	ITP signed	IP	Site Engineer/Foreman	N/A	



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Revision : 00 Date : 23/09/2024

Client: MRPV	Construction Process: Coloured surface treatments	Prepared by:	Reviewed by :	Approved by :
Project: Craigieburn Road Upgrade		Name: Shaman Costa	Name: Omar El-Khub	Name: Dirk Slabbert
Contract No: CONS-1145	Specifications: Project Specification Sections 1160, and 3070.7 VicRoads Specification Section 175, 721, 431, RDN 03-07	Position: Site Engineer	Position: Project Engineer	Position: Completions & Quality Manager
	Structure / Component: Coloured surface treatments	Date : 1/05/2024	Date : 22/09/2024	Date :

Lot No:	Lot Title:	Location: From () to ()	Lot Size/ Quantity:	Lot Opened Date:
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4	Acceptance of works												
4.1	Acceptance of works - Surface texture & Testing	Per lot	<p>Coloured surface treatments shall provide a visually uniform surface with uniform aggregate retention, and be free from delamination, stripping and areas of wear/scuffing. Any work that fails to meet the minimum requirements shall be rectified.</p> <p>Acceptance of work for surface texture shall be based on visual assessment, however in marginal cases the Superintendent may request that nominated areas be tested in accordance with the test method for assessment of surface texture testing as listed in Section 175.</p> <p>A lot will consist of a single batch or area of like work which has been constructed under uniform conditions and is essentially homogeneous with respect to material and appearance. A lot shall be the lesser of one day's production or each 500 m2.</p> <p>The surface texture of each test site within the lot shall be a minimum of 0.6 mm.</p> <p>Discrete portions of a lot which are non-homogeneous with respect to material and appearance shall be excluded from the lot and either treated as separate lots, or replaced. Where the areas excluded from a lot as non-homogeneous exceed 20% of the total lot area, the whole of the lot shall be rejected.</p>	VR431.11	Site inspection	ITP signed Test report	IP	Site Engineer/Foreman	N/A				
4.2	Acceptance of colour	Per lot	<p>SUP Pram Crossings to be installed as per RDN 03-07 with Golden Yellow (AS colour Y14).</p> <p>Bus Lanes to be installed as per AS 1742.12 Signal Red R13</p> <p>Bicycle Lanes to be installed as per Table 4311.111 Emerald Green G13</p>	PS3070.07 VR RDN 03-07 VR431.11	Document review & Site inspection	ITP signed	TP	Site Engineer	N/A				
4.3	Testing of Colour	Per lot	<p>The colour of the finished surface shall be a Rating 3 Approximate Match (or better) with the approved colour as per item 4.2.</p> <p>The initial colour shall be measured in accordance with Australian Standard 1580.601.1:1995. Each lot of material shall be tested within 2 days of placement. Testing shall be undertaken onsite and under daylight conditions only. Each lot of coloured surface treatment shall provide a Rating 3 Approximate Match (or better) with adjacent lots.</p>	VR431.11	Document review & Site inspection	ITP signed	TP	Site Engineer	N/A				
5	Maintenance and repairs												
5.1	Repairs - Coloured surface treatment	Per lot	<p>The Contractor shall be responsible for monitoring and maintenance of the coloured surface treatment from the time of placement, until the end of the defects liability period.</p> <p>The Contractor shall advise the Superintendent in writing of the proposed treatment for any repairs before undertaking the work.</p>	VR431.12	Site inspection	ITP signed	HP	Superintendent					

Final Inspection

The signature below verifies that this ITP has been completed in accordance with the FH's Quality system Procedures and verifies lot compliance with specifications.

Date: / /

Work Completed On:

Legend						
HP	Hold Point	Work shall not proceed past the HP until released by the Superintendent		IP	Inspection point	Formal inspection to be done and recorded
HP*	FH Hold Point	Work shall not proceed past the HP* until released by FH		TP	Test Point	Product compliance test to be undertaken and recorded/reported
AP	Approval Point	Written or verbal approval given by the Superintendent		SCP	Survey conformance point	A qualified surveyor to check product/section/structure and report
WP	Witness Point	An inspection which must be witnessed by the Superintendent				