

## SOLVENT BORNE ONE PACK PIGMENTED PAVING PAINT FOR CONCRETE

### 1 SCOPE

A solvent borne pigmented finish, intended to provide a uniformly coloured finish to interior and exterior concrete and masonry, and to interior timber floors.

### 2 BACKGROUND

- a) To obtain a broad overview of the Australian Paint Approval Scheme (APAS), refer to APAS document AP-D001.
- b) To obtain an overview of restricted ingredients in APAS certified products, refer to APAS document AP-D123.
- c) To obtain the current list of APAS participating manufacturers (and suppliers) and resellers, refer to APAS document AP-D152.
- d) To obtain an overview of how to participate in the APAS, refer to APAS document AP-D177.
- e) APAS approval to this specification may be gained by compliance with the requirements detailed in this specification and those in APAS document AP-D192.

### 3 DESCRIPTION AND GUIDE FOR USERS

#### 3.1 General Requirements

- a) A solvent borne pigmented finish, intended to provide a uniformly coloured finish to interior and exterior concrete and masonry, and to interior timber floors.
- b) Applied to interior and exterior concrete and masonry, and to interior primed timber, by brush, roller or spray at a dry film thickness of approximately 30µm per coat.
- c) Provides a uniformly coloured finish to enhance appearance and inhibit staining and dusting of the surface.
- d) Limited to domestic use and similar situations where only light traffic is envisaged. Readily recoated.

#### 3.2 Sub-Classes

- a) This specification incorporates the following sub-classes:
  - i. **0200/1**: Semi-gloss finish
  - ii. **0200/2**: Gloss finish

#### 3.3 Basis of this Specification

- a) This specification is based on AS 3730.29 with the following additional/increased requirements:
  - i. Minimum volume solids are specified
  - ii. Colourant Acceptance Test
- b) Paints approved under this specification correspond to Paint Reference Number (PRN) B24 of AS/NZS 2311.

### 4 REFERENCED DOCUMENTS

- a) The following standards are referenced in this document:
  - i. **AS/NZS 1580** – Paints and related materials: Methods of test
  - ii. **AS/NZS 2311** – Guide to the painting of buildings

- iii. **AS 3730.29** – Guide to the properties of paints for buildings – Part 29: Solvent-borne – Exterior / interior – Paving paint

These documents may be purchased through the Reference Standards Australia website:

<https://www.standards.org.au/>

- iv. **The Poisons Standard June 2021**: Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) No. 33, Part 2: Control on Medicines and Poisons, Section Seven / Appendix I Paint or Tinters

This document is available from the Australian Government Federal Register of Legislation web site at:

<https://www.legislation.gov.au/Details/F2021L00650>

- b) The following APAS documents are referenced in this document:
  - i. AP-D001 Rules Governing How APAS® Operates
  - ii. AP-D123 Restrictions on Ingredients in Product Formulations
  - iii. AP-D152 APAS® Participating Manufacturers and Resellers
  - iv. AP-D177 Rules Governing How Product Manufacturers participate in APAS®
  - v. AP-D181 Volatile Organic Compounds (VOC) Limits
  - vi. AP-D192 Rules Governing APAS® Product Certification Scheme

All APAS documents are available for download from the APAS website: <https://vs.csiro.au/apas/documents/>

### 5 COMPOSITIONAL REQUIREMENTS

#### 5.1 Binder

- a) The binder requirements are not restricted by this specification and are chosen to impart the properties detailed in clause 8, Table 1.

#### 5.2 Volatiles

- a) The volatile component shall typically be comprised of hydrocarbons.
- b) For VOC content restrictions, refer to APAS document AP-D181.

#### 5.3 Pigmentation

- a) The pigmentation shall be chosen to impart the properties detailed in clause 8, Table 1 below.

#### 5.4 Colour

- a) Products approved under this specification are normally available in a wide range of colours.

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### 6 PRODUCT APPROVAL REQUIREMENTS

#### 6.1 General Requirements

- a) The product and its application for approval shall comply with the relevant requirements of APAS document AP-D192 during the life of the approval.

#### 6.2 Technical Requirements

- a) The product shall comply with **all** the requirements of clause 8, Table 1 below.
- b) The manufacturers own quality control schedule of tests and limits shall be allowed subject to the approval of the Executive Officer (EO), APAS.
- c) On request, the EO may request the results of the tests for a batch and compare these with previous batches.
- d) Density and non-volatile content by weight (NVCW) figures for each production batch of the approved product shall be within  $\pm 3\%$  of the actual (not theoretical) figures quoted in the original product approval submission (APAS document AP-D139).
- e) Subject to compliance with all the requirements of this specification, the level of Approval appropriate to the application shall be given to the system.

#### 6.3 Health and Safety Requirements

- a) The manufacturer's Safety Data Sheet (SDS) must be studied closely prior to using the product and complied with during use of the product.
- b) Since the products covered by this specification contain hydrocarbon solvents, the paint is flammable and should be stored away from all sources of heat or ignition.
- c) Containers should be resealed immediately after use and good ventilation provided during use to minimise the risk of fire or explosion and the long-term toxic effects of absorption of the vapour into the lungs.
- d) Care should be taken to avoid contact with the skin by the use of protective clothing and barrier cream. All pumping equipment should be adequately earthed. A full-face air fed respirator should be used when spraying.
- e) Products intended for sale in Australia shall comply with all the requirements of the SUSMP. Products intended for sale in other countries shall comply with all local WHS and environmental requirements.
- f) The product shall comply with all requirements of clause 6.3 and 6.4 of APAS document AP-D192.

### 7 APPENDIX A

#### Colourant Acceptance Test

- 7.1 **Commonly used Colourant System:** Where the tinting system used to achieve the manufacturer's colour range (MCR) is one already commonly in use in the market place, the colourant acceptance of the product(s) shall be assessed using colours nominated in clause 16 Appendix A Table A1 of APAS document AP-D192, and the method nominated in 7.3 below.
- 7.2 **Uncommon Colourant System:** Where the tinting system used to achieve the manufacturer's colour range (MCR) is **not** one already commonly in use in the market place, the colourant acceptance (and durability) of the product(s) shall be assessed as per clause 16 Appendix A section A3 of APAS document AP-D192, and the method nominated in 7.3 below.
- 7.3 **Finger Rub Up Method:**
- To a sealed cardboard panel, apply one coat of test paint (typically by 0.032 wire wound bar coater) and allow to dry (may be forced dry or allowed to dry overnight).
  - Apply a further coat of test paint to the cardboard panel using the same wire wound coater.
  - Using a finger with gentle pressure, immediately rub an area of the film about 30 mm in diameter in a circular motion until a slight tackiness is detected. Allow the panel to dry overnight.
  - The difference in colour between the two sections on the panel shall not exceed a rating of 1 when assessed using test method AS/NZS 1580.481.1.12.
  - Test panels of dimensions 100 x 150 mm demonstrating the colour acceptance and including details of each colorant included in each panel, are to be supplied to APAS.



## SPECIFICATION AP-S0200



### SOLVENT BORNE ONE PACK PIGMENTED PAVING PAINT FOR CONCRETE

8 TABLE 1: PERFORMANCE PROPERTIES

TEST	AS/NZS 1580 METHOD	REQUIREMENTS
General Requirements	<b>AS 3730.29</b>	Shall comply with <b>all</b> the requirements of <b>clause 5 Typical Properties and Characteristics</b> . <b>All</b> results shall be reported.
Non-volatile Content by Volume (Volume Solids)	301.2	Minimum 32%. <ul style="list-style-type: none"><li>Volume solids maybe determined theoretically from raw material data except where solid constituents incorporate sealed air voids.</li></ul>
Viscosity	214.3	To be within 5% of manufacturers specification.
Specular Gloss	602.2	<b>0200/1:</b> 25 to 50 gloss units at 60°. <b>0200/2:</b> 50 to 85 gloss units at 60°.
Colour Acceptance	Clause 7, Appendix A	Colour difference $\leq 1$ .
VOC Content	APAS AP-D181	Refer to APAS document AP-D181 for method and limits. If the APAS specification is not listed on AP-D181, a declaration of VOC content <b>is still required</b> .



# SPECIFICATION AP-S0200



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### 9 APPENDIX B

#### Document History

Status: Current  
Version: 9  
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Document Version No.:	Date Published:	Summary of Changes:
9	10-09-2021	<ul style="list-style-type: none"><li>• General format changes</li><li>• Updated background information in clause 2</li><li>• Updated SUSMP information</li><li>• Updated APAS website information</li></ul>
8	26-11-2020	<ul style="list-style-type: none"><li>• Addition of Appendix B Document History and removal of the Editorial Note previously used in specification versions</li><li>• Updated document to the current format</li><li>• Updated internal and external document references</li><li>• Addition of General Requirements to clause 7, Table 1 Performance Properties</li><li>• Inclusion of VOC Content requirement to Table 1 Performance Properties</li><li>• Addition of "People + Product = Protection" to Footer</li></ul>
7	08-10-2003	<ul style="list-style-type: none"><li>• Deleted reference to GPC numbering and incorporated a general format update</li><li>• Clarified and simplified the Colourant Acceptance Test (Appendix A)</li></ul>
6	08-02-2001	<ul style="list-style-type: none"><li>• Initiated the second stage of the move to new specification numbering with prominence given to the new number (previously GPC-P-200)</li></ul>