

SOLVENT BORNE SEALER FOR CONCRETE AND MASONRY (BUILDINGS)

1 SCOPE

A pigmented solvent borne sealer for preparing unpainted building surfaces prior to the application of a range of finishing coats.

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 pigmented solvent borne sealer for preparing unpainted building surfaces prior to the application of a range of finishing coats.
- b) Apply as the initial coat to porous surfaces and finish with interior or exterior undercoats and topcoats as appropriate. Colours normally available are white and/or off white.
- c) Before using these products on new concrete or masonry surfaces, the Foreword and Appendix A of AS 3730.22, should be studied.

3.2 Sub-Classes

- a) This specification does not incorporate any sub-class.

3.3 Basis of this Specification

- a) This specification is based on AS 3730.22 with the following additional / increased requirements:
 - i. Dry hiding (contrast ratio) requirement
- b) Products approved under this specification comply with Paint Reference Number (PRN) B15 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 3730.22** - Guide to the properties of paints for buildings, Part 22: Concrete and masonry sealer – solvent-borne – Interior/exterior

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 composition of the binder is not restricted under this specification. Typically, it will be an alkyd resin solution.

5.2 Volatiles

- a) The volatile component shall typically consist 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 7, Table 1 below.

5.4 Colour

- a) Available typically in white or off white. Capable of being tinted using standard tinting systems.

5 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.



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6.2 Technical Requirements

- a) The product shall comply with **all** the requirements of clause 7, 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.



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7 TABLE 1: PERFORMANCE PROPERTIES

TEST	AS/NZS 1580 METHOD	REQUIREMENTS
General Requirements	AS 3730.22	Shall comply with all the requirements of clause 5 Typical Properties and Characteristics Requirements . All results shall be reported.
Dry Hiding Power - Contrast Ratio	213.2	Minimum 80%.
Viscosity	214.3	0.1 - 0.4 Pa.s.
Colour - Visual Comparison	601.1	White or Off-White.
Specular Gloss	602.2	Maximum 50 at 60°.
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 is still required.



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8 APPENDIX A

Document History

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Document Version No.:	Date Published:	Summary of Changes:
9	02-09-2021	<ul style="list-style-type: none">• General format changes• Updated background information in clause 2• Updated SUSMP information• Updated APAS website information
8	25-11-2020	<ul style="list-style-type: none">• Addition of Appendix A Document History and removal of the Editorial Note previously used in specification versions• Updated document to the current format• Updated internal and external document references• Inclusion of VOC Content requirement to Table 1 Performance Properties• Addition of "People + Product = Protection" to Footer
7	07-10-2003	<ul style="list-style-type: none">• Deleted reference to GPC numbering and incorporated a general format update
6	17-01-2001	<ul style="list-style-type: none">• Initiated the second stage of the move to new specification numbering with prominence given to the new number (previously GPC-S-17/1)