

INTERIOR LATEX SEALER (BUILDINGS)

1 SCOPE

A water-based sealer or undercoat for preparing unpainted building surfaces prior to the application of a range of possible 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 water-based sealer or undercoat for preparing unpainted building surfaces prior to the application of a range of possible finishing coats.
- b) Products approved under this specification are suitable for interior wallboards or timber but not highly porous, loosely bound substrates. They may or may not be pigmented. Some products may also be suitable for exterior surfaces.
- c) These products would typically be used for the preparation of new timber or wallboards in internal situations or for the preparation of previously painted surfaces to provide a uniform, clean substrate for appropriate (water based) topcoats.

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 3730.17 and AS 3730.18 (interior only).
- b) Products approved under this specification comply with Paint Reference Number (PRN) B16 and B17A 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 3730.17** - Guide to the properties of paints for buildings, Part 17: Primer – Wood - Latex – Interior/exterior

- iv. **AS 3730.18** - Guide to the properties of paints for buildings, Part 18: Undercoat/sealer – Latex – Interior/exterior

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

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

- v. **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 shall typically consist of a dispersion in water of a suitable polymer designed to impart the properties detailed in clause 7, Table 1 below.

5.2 Volatiles

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

5.3 Pigmentation

- a) Where approved products are pigmented, the pigmentation shall be chosen to impart the properties detailed in clause 7, Table 1 below.

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.

6.2 Technical Requirements

- a) The product shall comply with **all** the requirements of clause 7, Table 1 below.



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- b) The manufacturer's 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) 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.
- c) 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 3730.18 | Shall comply with all the requirements of clause 5.3 Liquid Paint, 5.4 Application Properties, 5.5 Applied Film (except 5.5.7 Resistance to Natural Weathering) and 5.6 Cleaning of Equipment , unless modified as per below. All results shall be reported. |
| Additional Wet Paint Tests | | |
| Non-volatile Content by Volume (Volume solids) | 301.2 | Minimum 33%. <ul style="list-style-type: none">Volume solids may be determined theoretically from raw material data except where solid constituents incorporate sealed air voids. |
| Viscosity | 214.3 | 0.07 - 0.2 Pa.s. |
| Equipment Clean-up | | At the completion of the application tests, the equipment shall be readily cleaned with water and detergent. |
| 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. |
| Additional Dry Film Tests | | |
| Opacity | 213.2 | ≥ 94% at 16 m ² /L spreading rate. |
| Specular Gloss | 602.2 | Maximum 50 at 60°. |
| Adhesion of Paint System over Full Gloss Enamel | | A paint system on timber consisting of one coat of primer to APAS specification 0181, one coat of undercoat to APAS specification AP-S0016/1 and one coat of black enamel to APAS specification AP-S0015/1 is allowed to dry for 28 days and then overcoated with one coat of APAS specification AP-S0172 latex sealer. The panel is allowed to dry for 24 hours. The panel, in a horizontal position, is then mist-sprayed with distilled water to saturate the surface and is kept under a bell jar or similar enclosure at 45°C for 24 hours. On examination, the panel shall not show any signs of blistering. |



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8 APPENDIX A

Document History

Status: Current
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| Document Version No.: | Date Published: | Summary of Changes: |
|-----------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11 | 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 |
| 10 | 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• Removal of reference to APAS specification 0163/2 no longer in use.• Inclusion of VOC Content requirement to Table 1 Performance Properties• Addition of "People + Product = Protection" to Footer |
| 9 | 23-07-2008 | <ul style="list-style-type: none">• Amalgamated product requirements from 0163 |
| 8 | 23-09-2004 | <ul style="list-style-type: none">• Incorporated tests from the withdrawn standard AS 3730.23 |
| 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-17/2) |