

TWO PACK CLEAR FINISH FOR TIMBER

1 SCOPE

An extremely hard, two pack, clear solvent borne finish, intended to enhance the appearance and provide maximum protection for 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) An extremely hard, two pack, clear solvent borne finish, intended to enhance the appearance and provide maximum protection for interior timber floors.
- b) Applied by brush, roller or lamb's wool or foam applicator to enhance the appearance of interior timber, including parquetry.
- c) Applied at a dry film thickness of approximately 30µm per coat to provide a full gloss or semi-gloss finish with high resistance to wear and tear and staining.
- d) For use in interior domestic or public areas where a clear finish of maximum performance is required.
- e) The product is not appropriate for use on cork tiles as mechanical sanding of the previous coating is required before maintenance recoating and the sanding process will likely damage the cork files.
- f) Discolouration of latex wall coatings has been observed when either walls or floors are coated with too short a curing interval between. It has been determined that amines present in the latex wall finish can react with any free isocyanate in the polyurethane floor coating that has evaporated into the air space and reached the wall surface. Yellowing of the floor finish by volatile amines from the wall coating is also possible. The effect can be minimised by allowing sufficient curing time between application of the wall and floor coatings, typically at least 3 weeks.

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 3730.27 with the following modifications:
 - i. Addition of Bend Test
 - ii. Scratch Resistance increased to 1,500 g

- b) Paints approved under this specification correspond to Paint Reference Numbers (PRN) B20 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 3730.27** – Guide to the properties of paints for buildings – Part 27: Clear coatings for interior timber floors

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 shall typically consist of a hydroxy functional polymer and solvent as the first component and a polyisocyanate functional polymer and solvent as the second component.

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) Not applicable.



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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 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) Products covered by this specification contain hydrocarbon solvents, therefore the paint is considered 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) Painting should not be carried out whilst the building is occupied, and exterior doors should be propped open as the vapours are heavier than air.
- e) All pumping equipment should be adequately earthed. A full-face air fed respirator should be used when spraying.
- f) These products contain isocyanates and solvents and thus care should be taken to avoid contact with the skin by the use of protective clothing and barrier cream. Isocyanates can cause severe irritation to eyes and respiratory tract necessitating strict attention to safety.
- g) 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.
- h) 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 3730.27	Shall comply with all the requirements of clause 5 Typical Properties and Characteristics . All results shall be reported.
Specular Gloss	602.2	Semi-gloss: 25 to 50 gloss units at 60°. Gloss: ≥ 85 gloss units at 60°.
Scratch Resistance	403.1	>1,500g.
Bend Test (Assessment of Coating Ductility)	402.1	No cracking or adhesion loss when applied at a dry film thickness of 30 - 50µm to soft aluminium 0.3mm thick and bent around a 6mm mandrel.
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

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">• General format changes• Updated background information in clause 2• Updated SUSMP information• Updated APAS website information
8	26-11-2020	<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	29-10-2003	<ul style="list-style-type: none">• Deleted reference to GPC numbering and incorporated a general format update
6	12-02-2001	<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-P-206)