**Editorial Note**: This version of this specification deletes reference to GPC numbering & incorporates a general format update.

APAS Document D188 should be read to obtain a broad overview of the Australian Paint Approval Scheme (APAS).

Manufacturers who wish to participate in APAS within Australia should consult APAS documents D177 (for Australian manufacturers), D178 (for overseas manufacturers) & D180 (for toll manufacturers).

Manufacturers who wish to participate in APAS within their own countries should consult APAS document D175.

APAS approval to this specification may be gained by compliance with the requirements detailed in this specification and those in document D192 “The APAS Product Approval System”.

All APAS Documents may be downloaded from the APAS web site located at: www.apas.gov.au

1. **Scope**

1.1 **Description** An alkyd finishing paint for the exterior or interior of buildings. Available in full and semi-gloss from stock in a manufacturer's colour range as illustrated on a colour card with colours of lesser opacity and/or durability marked. Semi gloss products are suitable for interior only.

This specification covers sub-groups:
- 0015/1 Full gloss interior/exterior enamel
- 0015/3 Semi-gloss interior enamel

1.2 **Similar Specifications**
- 0015/1 AS 3730.6
- 0015/3 AS3730.5

Product type /1 corresponds to Paint Reference Number (PRN) B5 of AS2311; type /3 corresponds to PRN B3.

1.3 **Composition** Shall not be a Schedule 1 or Schedule 2 paint. (Uniform Paint Standard). The pigmentation shall consist of appropriate colouring pigments, the binder shall consist of alkyd resin, and the volatiles shall consist essentially of hydrocarbons.

1.4 **Uses** Apply to a primed and undercoated, or previously painted, surface. Apply by brush, roller or spray typically to a dry film thickness of 20 - 30µm. Handling time 16 hours.

**NOTE 1** Where extended exterior durability is required on timber surfaces, the use of Gloss Exterior Latex paints, as covered by APAS Specification 0280/1, is recommended. However solvent borne products may still be preferred where surfaces come into contact such as window sashes, or where enhanced resistance to wear and tear is required.

1.5 **Health & Safety** Read the Material Safety Data Sheet for the product before use and comply with the relevant state regulations.

Since the paint contains a hydrocarbon solvent, the paint is flammable and should be stored away from all sources of heat or ignition. 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. To ensure minimal exposure to solvent vapours, painting should not be carried out whilst the building is occupied.
Exterior doors, windows and relevant interior connecting doors should be propped open to ensure adequate ventilation. Alternatively, forced air ventilation should be used to ensure adequate air changes.

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.

2. Applicable Documents

Reference is made to:

AS/NZS 1580 Paints and related materials - Methods of test
available in Australia from Standards Australia offices in all capital cities (and online at www.standards.com.au) and in New Zealand from Standards New Zealand offices.

Australian Uniform Paint Standard (Appendix I of issue No.17 onwards of the Standard for the Uniform Scheduling of Drugs & Poisons), available from Australian Government Info stores in all capital cities in Australia.

3. Requirements for Approval

3.1 General requirements
The product and its application for approval shall comply with all applicable requirements of APAS Document D192.

3.2 Technical requirements
The product shall comply with all the requirements of Table 1 below.

3.3 Safety & environmental requirements
Products intended for sale in Australia shall comply with all the requirements of the Australian Uniform Paint Standard.
Products intended for sale in other countries shall comply with all local OH&S&E requirements.

3.4 Granting of Approval
Subject to compliance with all the requirements of this specification, the level of Approval appropriate to the application shall be given to the system.

4. Requirements for the Quality Control of Production

The manufacturers own quality control schedule of tests and limits shall be allowed subject to the approval of the Executive Officer, APAS.

On request, the Executive Officer, APAS may request the results of the tests for a particular batch and compare these with previous batches.
Density and non-volatile matter by weight (NVM) figures for each production batch of the approved product shall be within ± 3% of the actual (not theoretical) figures quoted in the original product approval submission - form D139 and/or form D140.

5. Ordering

Orders shall specify "Alkyd enamel" to APAS 0015 and the colour and gloss level required or the name of the manufacturer's approved product and the colour required.
APPENDIX

Colourant Acceptance Determination

The colour acceptance of the product colour range shall be proven satisfactory using the following procedure:-

Samples of white and each base should be tinted to practical colours shown on the manufacturers colour card. These colours should represent close to the maximum tinter addition allowable in that base. A number of tinters may be included in each sample, however the tinter under appraisal must comprise >25% of the total tinter added. Only sufficient samples need be prepared so as to include every tinting pigment normally available in the manufacturers tinting system. (Tinters are not required to be trialed in each base and it is anticipated that the maximum number of samples required would be 6-7). The method of addition and mixing shall be as detailed on the manufacturer’s printed instructions for use of the tinting system.

Test panels are then prepared using either the "picture frame" method, the "finger rub up" method or other agreed method.

Picture frame method: To a sealed plasterboard panel of minimum size 500 x 500 mm, apply one coat of test paint over the whole panel and allow to dry. Apply a further coat of test paint to the plasterboard panel by roller, but ensuring that the outer 75 mm perimeter of the panel is not coated. Apply a further coat of test paint by brush to the outer 100 mm perimeter of the panel, and allow to dry.

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 30mm in diameter in a circular motion until a slight tackiness is detected. Allow the panel to dry overnight.

Other method: For acceptance of other test methods, manufacturer will need to provide a copy of the test procedure used together with typical test panels, to APAS for their consideration and agreement.

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 colourant included in each panel, are to be supplied to APAS.
Table 1

<table>
<thead>
<tr>
<th>TEST</th>
<th>AS/NZS 1580 METHOD</th>
<th>REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compliance to AS3730</td>
<td>0015/1 shall comply with all requirements of Section 4 of AS3730.6 except as amended below. 0015/3 shall comply with all requirements of Section 4 of AS3730.5 except as amended below.</td>
<td></td>
</tr>
<tr>
<td>Non volatile content by volume (Volume solids)</td>
<td>301.2</td>
<td>Minimum 45% (Volume solids may be determined theoretically from raw material data except where solid constituents incorporate sealed air voids).</td>
</tr>
<tr>
<td>Viscosity</td>
<td>214.3</td>
<td>0.1 - 0.4 Pa.s</td>
</tr>
<tr>
<td>Resistance to natural weathering (/1 products only)</td>
<td>457.1</td>
<td>In accordance with AS 3730.6 <strong>NOTE 2</strong> It is likely that some colours will not fully meet the above durability requirements and these colours may be excluded from the colour range approval (Refer Note 1).</td>
</tr>
<tr>
<td>Colourant acceptance</td>
<td>Appendix to 0015</td>
<td>Colour difference ≤</td>
</tr>
<tr>
<td>VOC content</td>
<td>APAS D181</td>
<td>Shall comply with limits stated.</td>
</tr>
</tbody>
</table>