



**SIRIM QAS International Sdn. Bhd.**  
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### TEST REPORT

REPORT NO : 2023CE1963	PAGE : 1 OF 5
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#### THIS TEST REPORT IS ISSUED IN SECURED PDF SOFTCOPY

**Applicant** : PRODUCT CERTIFICATION & INSPECTION DEPARTMENT  
Industrial, Consumer Certification & Inspection Section 2, Building 25  
(Attn: Norizah Binti Abdul Manaf – P5-007389 / PC001109)

**Licensee:**  
SMART PAINT MANUFACTURING SDN. BHD.  
No 11 Jalan Indah Gemilang 5,  
Taman Perindustrian Gemilang,  
81800 Ulu Tiram, Johor, Malaysia.

**Manufacturer** : SMART PAINT MANUFACTURING SDN. BHD.  
No 11 Jalan Indah Gemilang 5,  
Taman Perindustrian Gemilang,  
81800 Ulu Tiram, Johor, Malaysia.

**Product** : LATEX EMULSION PAINT FOR EXTERIOR AND INTERIOR USE

**Reference Standard / Method of Test** : MS 134: 2007  
Specification for Latex Emulsion Paint for Exterior and Interior Use

**Description of sample** : Received one (1) sample of LATEX EMULSION PAINT FOR EXTERIOR AND INTERIOR USE for testing. The details are described in the next pages

**Date Received of Complete Application** : 02 May 2023

**Job No.** : J20233670755

**Description of Test Results** : The test results of the submitted test sample are described in the next pages of this test report

**Issued Date** : 21 August 2023

**Approved Signatory;**

(MUHAMMAD FAIZ BIN ZAINON)  
Testing Executive



(HAHNAS BINTI MAHBUT)  
Head

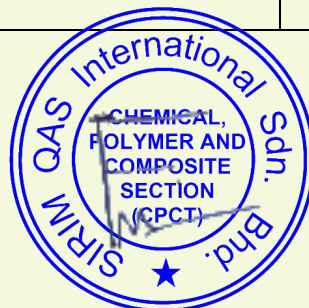
Chemical, Polymer and Composite Section  
Testing Services Department

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## Test Results

**Product** : LATEX EMULSION PAINT FOR EXTERIOR AND INTERIOR USE  
**Brand** : BORNEO PAINTS  
**Model** : BORNEO WEATHER PLUS  
**Batch Number** : F32301248  
**Production Date** : 18/1/2023  
**Colour Code** : AP20-2 Pale Cerulan  
**Marking** : Fresh

No.	Type of Tests	Requirements (MS 134: 2007)	Results	Remarks
1.	Condition in container (MS 134: 2007 – Clause 5.2.1)	The paint shall not show excessive settling in a freshly opened can containing the specified quantity, that is, it shall be easily redispersed by simple stirring to a smooth homogeneous state. The paint shall show no curdling, livering, caking or colour separation and shall be free from lumps, skin pieces and foreign matters.	The paint showed no excessive settling in a freshly opened can containing the specified quantity and was redispersed by simple stirring to a smooth homogeneous state. The paint also showed no curdling, livering, caking or colour separation and free from lumps, skin pieces and foreign matters.	Pass
2.1	Application Properties and Appearance a) Brushing (MS 134: 2007 – Clause 5.2.4.1)	a) When applied by brushing it shall show easy brushing and good flowing and lapping properties and shall not exhibit undue pull under the brush.	a) When applied by brushing the paint showed easy brushing and good flowing and lapping properties and did not exhibit undue pull under the brush.	Pass
2.2	Application Properties and Appearance b) Finish (MS 134: 2007 – Clause 5.2.4.4)	b) The paint, when thinned with water in accordance with the manufacturer's instructions, shall brush easily, and possess good leveling properties, when applied at a spreading rate of approximately 13 sq. metres per litre. The paint shall dry to a smooth, matt, uniform film free from runs, sagging, streaking and wrinkling.	b) The paint, when thinned with water in accordance with the manufacturer's instructions, brushed easily, and possessed good leveling properties, when applied at a spreading rate of approximately 13 sq. metres per litre. The paint also dried to a smooth, matt, uniform film free from runs, sagging, streaking and wrinkling.	Pass



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No.	Type of Tests	Requirements (MS 134 : 2007)	Results	Remarks
3.	Opacity (contrast ratio), % 1. All others BS 4800 colors and their near equivalents (MS 133 : Pt. D4)	85 (minimum)	99.3	Pass
4.	Colour (MS 133: Pt. D1)	The colour of the paint match that of the standard colour chip in BS 4800 or any reference colour as agreed upon between purchaser and vendor.	The colour of the paint matched with reference colour.	Pass
5.	Consistency, Krebs units, at 27 ± 2°C (MS 133: Pt. A9)	80 (minimum)	104.5	Pass
6.	Washability (MS 133: Pt. F9)	The washability shall be such that a pencil mark is removed and these shall be not more than slight erosion or slight changes in gloss and colour.	The pencil mark was removed without erosion or changes in gloss and colour of the paint.	Pass
7.	Fineness of grind, microns (MS 133 : Pt. C6)	60 (maximum)	40	Pass
8.	Drying time: hard dry, hours (MS 133 : Pt. C3)	2 (maximum)	The paint was hard dried when tested at maximum time.	Pass
9.	Scrubbability, (1500 Cycles) (ASTM D 2486)	There shall be no paint film removal from the substrate.	<i>Not Applicable (for textured paint only)</i>	-

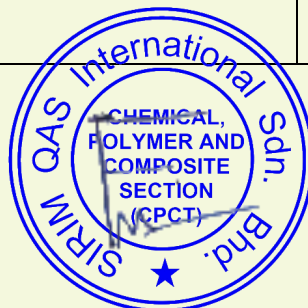


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No.	Type of Tests	Requirements (MS 134 : 2007)	Results	Remarks
10.	Non-volatile matter, % m/m of paint 1. All other colours (MS 133: Pt. B2)	50 (minimum)	52.8	Pass
11.	a) Density, g/ml (MS 133: Pt. A12: 2008)  b) Specific gravity (% difference from declared value) (MS 133: Pt. A12: 1994)	-  ± 3 (maximum)	1.3345  -0.89 S.G obtained : 1.338 Declared value : 1.35	-  Pass
12.	Resistance to accelerated weathering (500 hours) (MS 133: Pt. F8)	a) There shall be no sign of checking, cracking, flaking or blistering and the surface shall be in a satisfactory condition for repainting.  b) The film shall, having due regard to its other properties and particular colour concerned show good colour retention (not lower than BS Grey Scale 4) and resistance to chalking and discoloration.	a) There was no sign of checking, cracking, flaking or blistering and the surface was in a satisfactory condition for repainting.  b) The film having due regard to its other properties and particular colour concerned showed good colour retention (BS Grey Scale 4/5). It showed resistance to chalking.	Pass  Pass
13.	Resistance to fungal growth (28 days) (MS 133: Pt. G6)	The degree of fungal growth shall not exceed a rating of 1.	Rating 0 (No growth on specimen)	Pass
14.	Resistance to algal growth (MS 134 : 2007 - Annex A)	There shall be no sign of algal growth on the paint film.	There was no sign of algal growth on the paint film.	Pass



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#### CONDITIONS RELATING TO THE USE OF SIRIM QAS INTERNATIONAL TEST REPORT

1. A Test Report will be issued in respect of Testing Services conducted and shall relate only to the sample actually tested. SIRIM QAS International makes no warranty whatsoever and the Applicant shall not represent in any manner that any duplication or mass production of the Product is same as the sample actually tested or that SIRIM QAS International has tested any of the duplicated or mass-produced Product. Measurement uncertainty shall be included in the Test Report when there is no statement of conformity required. When a statement of conformity to a specification or standard is applied, the Simple Acceptance Rule is used. Unless otherwise stated, the Acceptance Rule with Guard Band is used.
2. The Test Report shall not be misused, amended, changed, varied or modified in any manner whatsoever by the Applicant or otherwise.
3. If the Test Report is to be furnished to any third party or to the public, each such Test Report shall be furnished in full, legible and in its entirety.
4. The Test Report shall not be reproduced and shall not in any event be used for any advertising purposes or whatsoever without written approval from the Head of Quality, Occupational Safety and Health & Environment (QOSHE) of SIRIM QAS International of No 1, Persiaran Dato' Menteri, Building 8, Section 2, P.O. Box 7035, 40700 Shah Alam, Selangor Darul Ehsan.
5. Customer (Applicant/Manufacture/Factory,etc.) is not permitted to use any SIRIM QAS International, SIRIM or other SIRIM's subsidiaries logo or words on packaging, sample's manual, technical specification, items and products.
6. Subject to consent and written approval from the Head of Quality, Occupational Safety and Health & Environment (QOSHE) of SIRIM QAS International, the customer (Applicant/Manufacture/Factory,etc.) may use SIRIM QAS International logo or word on the promotional materials and the Applicant shall only include the phrase, "A sample of this product has been tested by SIRIM QAS International ...(Test Report No) ...(dated) ...(for what test) ...(to which standard)" or such similar words which stress that only the sample was actually tested. This phrase shall only be used for the purpose of product advertisement or product promotion (eg; brochures/flyers/official website). For avoidance of doubt, the statement shall not be used on the sample, packaging of the sample, items and products.
7. In the event there is an investigation from a Government Regulatory Agency concerning the Applicant's Test Report, SIRIM QAS International may disclose the information pertaining to the Test Report for purposes of such investigation.
8. In the event the Applicant is found in breach of this provision, SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries without prejudice to any other rights and remedies may take whatever action necessary including but not limited to:
  - a) Informing and placing a notice in the media;
  - b) Obtaining an injunction from Court (cost on a solicitor-client basis to be borne by the Applicant);
  - c) Refusing to accept any further Product for Testing Services from the Applicant or whosoever related to the Applicant, whether subsidiary or otherwise;
  - d) Instructing the Applicant to withdraw and recall the advertisement, statement or document in question and advertise a clarification and apology to SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries twice in a national publication of SIRIM QAS International's choice at the Applicant's sole cost; and
  - e) Informing or lodging a report pertaining the Applicant's Test Report with the relevant authorities.
9. SIRIM QAS International is committed in supporting an environmentally-friendly business practices by reducing paper consumption, therefore we do not issue any hard copy of Test Report to the Applicant. However, additional certified true copy(ies) or softcopy of the Test Report may be issued upon request by the Applicant upon payment of the relevant fee. The certified true copy(ies) or softcopy of test report shall only be given for test report issued not more than three (3) years from the date of issuance.
10. Issuance of Amendment Report due to the following reasons are chargeable to the Applicant :
  - a) Changes in details of the Applicant name and/or address;
  - b) Changes in details of the Manufacturer's name and/or address;
  - c) Changes in details of the Factory location name and/or address;
  - d) Changes in details of the model and/or type designation
11. However, issuance of Supplementary Report due to the following reasons are FOC :
  - a) Misprints and typo errors;
  - b) Missing technical information as agreed in PP1 form;
  - c) Test data not reported;
  - d) Mistake in reporting of test data
12. Corrections to report shall only be allowed if the date of issuance of the original report has not exceeded 6 months and shall be limited to a maximum 3 times, after either case whichever occurs earlier, an Amendment or a Supplementary Report shall not be issued.