



MALAYSIAN STANDARD

**MS 133: PART F15:2003
(CONFIRMED:2018)**

**Methods of test for paints and varnishes:
Part F15: Determination of resistance to
humidity (Intermittent condensation)
(ISO 11503:1995, MOD))**

ICS: 85.040

Descriptors: paints, varnishes, determination, resistance, humidity, intermittent water condensation

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Committee representation

The Chemical and Materials Industry Standards Committee (ISC B) under whose supervision this Malaysian Standard was developed, comprises representatives from the following organisations:

Department of Mineral and Geoscience

Department of Standards Malaysia

Federation of Malaysian Manufacturers

Malaysian Ceramic Industry Group

Malaysian Institute of Chemistry

Malaysian Paint Manufacturers Association

Malaysian Pulp and Paper Manufacturers Association

Malaysian Textile Manufacturers Association

Ministry of Agriculture (Department of Agriculture)

Ministry of Defence (Defence Science and Technology Centre)

Ministry of Science, Technology and the Environment (Department of Chemistry, Malaysia)

Universiti Malaya

Universiti Sains Malaysia

The Technical Committee on Paints and Varnishes which developed this Malaysian Standard consists of representatives from the following organisations:

Federation of Malaysian Manufacturers

Kumpulan IKRAM Sdn Bhd

Malaysian Paint Manufacturers Association

Ministry of Defence

Seamaster Paint (Mfg) Bhd

SIRIM Berhad (Secretariat)

SIRIM QAS Sdn Bhd

Universiti Kebangsaan Malaysia

Universiti Teknologi Malaysia

Universiti Teknologi MARA

Co-opted members:

Federal Paint Factory Sdn Bhd

Jotun (M) Sdn Bhd

FOREWORD

This Malaysian Standard was developed by the Technical Committee on Paints and Varnishes under the authority of the Chemical and Materials Industry Standards Committee.

This standard corresponds to ISO 11503:1995, 'Paints and varnishes - Determination of resistance to humidity (intermittent condensation)', published by the International Organization for Standardization (ISO) with the following modifications:

- a) Sub-clauses 7.3 and 8.1 - Conditioning is carried out at a temperature of (27 ± 2) °C and (65 ± 5) % relative humidity instead of (23 ± 2) °C and (50 ± 5) %.
- b) Clause 3 and sub-clause 5.4 - Condition in the cabinet or chamber is cycled to give (27 ± 2) °C and (50 ± 20) % instead of (23 ± 5) °C and (50 ± 20) %.

MS 133 series consist of many parts under the general title 'Methods of test for paints and varnishes'. Part F consists of the following parts:

Part F2: Resistance to humidity under condensation conditions

Part F4: Resistance to continuous salt spray

Part F5: Determination of light fastness of paints for interior use exposed to artificial light sources

Part F6: Resistance to natural weathering

Part F7: Determination of resistance to water (water immersion method)

Part F8: Resistance to accelerated weathering, xenon arc method

Part F9: Washability

Part F10: Determination of resistance to cathodic disbonding of coatings for use in marine environments

Part F11: Determination of resistance to cathodic disbonding of coatings for use on land-based buried structures

Part F12: Determination of resistance to neutral salt spray (fog)

Part F13: Determination of resistance to filiform corrosion on steel substrates

Part F14: Artificial weathering and exposure to artificial radiation - Exposure to filtered xenon-arc radiation

Part F15: Determination of resistance to humidity (intermittent condensation)

Part F16: Exposure of coatings to artificial weathering - Exposure to fluorescent UV and water

Part F17: Determination of wet-scrub resistance and cleanability of coatings

Part F18: Determination of resistance to corrosion under a wet (salt fog)/dry/humidity cycle

Part F19: Determination of resistance to corrosion under a wet (salt fog)/dry/humidity/UV light.

Compliance with a Malaysian Standard does not of itself confer immunity from legal obligations.

NOTE. MOD on the front cover indicates a modified standard i.e. a standard adapted from an International Standard with permitted technical deviations, which are clearly identified and explained. The changes in structure are permitted provided that the altered structure permits easy comparison of the content of the two standards. Modified standards also include the changes permitted under identical correspondence.