
MALAYSIAN STANDARD

MS 271 : 1993

ICS : 87.040

**SPECIFICATION FOR RED IRON OXIDE PRIMER
(FIRST REVISION)**



SIRIM

STANDARDS & INDUSTRIAL RESEARCH INSTITUTE OF MALAYSIA

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This Malaysian Standard, which had been approved by the Chemical and Pharmaceutical Industry Standards Committee and endorsed by the Board of the Standards and Industrial Research Institute of Malaysia (SIRIM) was published under the authority of the SIRIM Board in December, 1992.

SIRIM wishes to draw attention to the fact that this Malaysian Standard does not purport to include all the necessary provisions of a contract.

The Malaysian Standards are subject to periodical review to keep abreast of progress in the industries concerned. Suggestions for improvements will be recorded and in due course brought to the notice of the Committees charged with the revision of the standards to which they refer.

The following references relate to the work on this standard:

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Amendments issued since publication

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Committee representation

The Chemical and Pharmaceutical Industry Standards Committee under whose supervision this Malaysian Standard was prepared comprises representatives from the following Government Ministries, trade, commerce and manufacturer associations and scientific and professional bodies.

Federation of Malaysian Manufacturers
Malaysian Institute of Chemistry
Malaysian Paint Manufacturers Association
Malaysian Pharmaceutical Society
Ministry of Defence (Defence Science and Technology Centre)
Ministry of Health (Institute for Medical Research)
Ministry of Science, Technology and the Environment (Chemistry Department)
National Chambers of Commerce and Industry of Malaysia
Petronas

The Working Group on Paints and Varnishes which prepared this Malaysian Standard consists of the following representatives:

Encik Hooi Weng Yin/ Encik Lam Kon Siow (Chairman)	Malaysian Paint Manufacturers Association
Encik Rosman Yahya	Institut Kerja Raya Malaysia
Prof. Madya Dr. Azhari Saleh	Universiti Teknologi Malaysia
Prof. Madya Dr. Bohari Yamin	Universiti Kebangsaan Malaysia
Puan Rahmah Mohamed	Institut Teknologi Mara
Encik Mohd. Yazid Ahmad	Ministry of Defence
Encik Cheh Poo Kin	Malaysian Paint Manufacturers Association
Encik Lee Kok Hwee	Federation of Malaysian Manufacturers
Encik Chan Lee Sam	Master Builders Association
Encik Chris Yap	Pertubuhan Arkitek Malaysia
Encik Mohd. Radzi bin Mohd. Toff/ Cik Flora Anthonysamy	Standards and Industrial Research Institute of Malaysia
Encik Ler Leong Tat/ Puan Dzuraidah Hj. Abd. Wahab (Secretary)	Standards and Industrial Research Institute of Malaysia

FOREWORD

This Malaysian Standard was prepared by the Working Group on Paints and Varnishes under the authority of the Chemical and Pharmaceutical Industry Standards Committee.

This standard was first published in 1975 as MS 271 'Specification for priming paint : red oxide for iron and steel'. The title of the standard was changed to 'Specification for red iron oxide primer' as it was felt to be more appropriate.

This revision was based on extensive testings carried out by SIRIM on samples obtained from the local market as well as samples supplied by the local paint manufacturers.

The main changes featured in this revision are as follows:

1. Composition of pigment:

The iron oxide content shall be reported in terms of the % by weight of the wet paint.

2. Resistance to continuous salt spray :

This requirement was deleted from the specification after several repeated testings indicated that the results were not consistent. Furthermore, there are various technical findings by pigment, test equipment and paint manufacturers which indicate that testing conditions do not correlate with natural condition.

Prohesion test has been recognised as a more superior method of test and is most likely to replace continuous salt spray in due course.