

इंटरनेट

मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 101-6-4 (1991): Methods of sampling and test for paints, varnishes and related products, Part 6: Durability tests on paint films, Section 4: Degradation of coatings (pictorial aids for evaluation) [CHD 20: Paints, Varnishes and Related Products]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

BLANK PAGE



रंग रोगन, वार्निश तथा संबद्ध उत्पादों के नमूने लेने और
परीक्षण की पद्धतियाँ

भाग 6 रंग रोगन की परतों पर टिकाऊपन परीक्षण

अनुभाग 4 लेपनों के ह्रास (मूल्यांकन के लिए चित्रीय सामग्री)

(तीसरा पुनरीक्षण)

Indian Standard

METHODS OF SAMPLING AND TEST FOR
PAINTS, VARNISHES AND RELATED
PRODUCTS

PART 6 DURABILITY TESTS ON PAINT FILMS

Section 4 Degradation of Coatings (Pictorial Aids for Evaluation)

(Third Revision)

UDC 667·613 : 620·169·1

© BIS 1991

BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

FOREWORD

This Indian Standard (Part 6/Sec 4) (Third Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Paints (Other than Industrial Paints) and Allied Products Sectional Committee had been approved by the Chemical Division Council.

This standard is one of a series dealing with sampling and testing of paints, varnishes and related products. In the preparation of this standard, considerable assistance has been derived from ASTM D-714.

In reporting the result of a test or analysis made in accordance with this standard, if the final value, observed or calculated, is to be rounded off, it shall be done in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'.

Indian Standard

METHODS OF SAMPLING AND TEST FOR PAINTS, VARNISHES AND RELATED PRODUCTS

PART 6 DURABILITY TESTS ON PAINT FILMS

Section 4 Degradation of Coatings (Pictorial Aids for Evaluation)

(*Third Revision*)

1 SCOPE

This standard (Part 6/Sec 4) prescribes the method for evaluation of the degree of flaking (scaling) and blistering, that may develop in the paint system, by comparison with photographic standards.

2 REFERENCES

The Indian Standard listed below is the necessary adjunct to this standard:

<i>IS No.</i>	<i>Title</i>
1303 : 1973	Glossary of terms relating to paints (<i>second revision</i>)

3 DEFINITION

For the purpose of this standard, the definitions given in IS 1303 : 1983 shall apply.

4 REFERENCE STANDARDS

4.1 The photographic reference standards as given in Fig. 1 of ASTM D-714 are representative of the degree of flaking (scaling) of exterior paint films.

4.2 Fig. 2 to 5 of ASTM D-714 are the photographic reference standards and illustrate two characteristics of blistering-size and frequency.

4.2.1 *Size*

Reference standards have been selected for four

steps as to size on a numerical scale from 1 to 5, in which 5 represents no blistering. Blistering standard No. 4 represents the smallest size blister easily seen by the unaided eye. Blistering standards No. 3, 2 and 1 represent progressively larger sizes.

4.2.2 *Frequency*

Reference standards have been selected for four steps in frequency at each step in size, designated as follows:

Dense — D
Medium dense — MD
Medium — M, and
Few — F

5 PROCEDURE

5.1 The paint film is subjected to the test conditions agreed upon by the purchaser and the supplier. Then evaluate the paint film for the degree of flaking and/or blistering by comparison with the photographic reference standards as in Fig. 1 to 5 of ASTM D-714.

NOTE — It must be realized that degree of failure will vary over any given area. Therefore, an average portion of the film shall be used for comparison. On larger surfaces, it is recommended that ratings be made at several locations and the mean and range reported.

Standard Mark

The use of the Standard Mark is governed by the provisions of the *Bureau of Indian Standards Act, 1986* and the Rules and Regulations made thereunder. The Standard Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well defined system of inspection, testing and quality control which is devised and supervised by BIS and operated by the producer. Standard marked products are also continuously checked by BIS for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

Bureau of Indian Standards

BIS is a statutory institution established under the *Bureau of Indian Standards Act, 1986* to promote harmonious development of the activities of standardization, marking and quality certification of goods and attending to connected matters in the country.

Copyright

BIS has the copyright of all its publications. No part of these publications may be reproduced in any form without the prior permission in writing of BIS. This does not preclude the free use, in the course of implementing the standard, of necessary details, such as symbols and sizes, type or grade designations. Enquiries relating to copyright be addressed to the Director (Publications), BIS.

Revision of Indian Standards

Indian Standards are reviewed periodically and revised, when necessary and amendments, if any, are issued from time to time. Users of Indian Standards should ascertain that they are in possession of the latest amendments or edition. Comments on this Indian Standard may be sent to BIS giving the following reference:

Doc : No. CHD 020 (9602)

Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

BUREAU OF INDIAN STANDARDS

Headquarters :

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002
Telephones : 331 01 31, 331 13 75

Telegrams : Manaksanstha
(Common to all Offices)

Regional Offices :

	Telephone
Central : Manak Bhavan, 9 Bahadur Shah Zafar Marg NEW DELHI 110002	{ 311 01 31 331 13 75
Eastern : 1/14 C. I. T. Scheme VII M, V. I. P. Road, Maniktola CALCUTTA 700054	37 86 62
Northern : SCO 445-446, Sector 35-C, CHANDIGARH 160036	53 38 43
Southern : C. I. T. Campus, IV Cross Road, MADRAS 600113	235 02 16
Western : Manakalaya, E9 MIDC, Marol, Andheri (East) BOMBAY 400093	6 32 92 95

Branches : AHMADABAD, BANGALORE, BHOPAL, BHUBANESHWAR, COIMBATORE,
FARIDABAD, GHAZIABAD, GUWAHATI, HYDERABAD, JAIPUR, KANPUR,
PATNA, THIRUVANANTHAPURAM.