

इंटरनेट

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IS 3537 (1966): Ready mixed paint, finishing, interior, for general purposes, to Indian Standard Colours No.101,216,217,219,275,281,352,353,358to361,363, 364,388,410,442,444,628,631,632,634,693,697, white and black [CHD 20: Paints, Varnishes and Related Products]

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Indian Standard

SPECIFICATION FOR READY MIXED PAINT, FINISHING, INTERIOR, FOR GENERAL PURPOSES, TO INDIAN STANDARD COLOURS

BLUE

No. 101 Sky Blue

GREEN

No. 216 Eau-de-Nil No. 217 Sea Green No. 219 Sage Green No. 275 Opaline Green No. 281 Apple Green

YELLOW, CREAM AND BUFF

No. 352 Pale Cream No. 353 Deep Cream No. 358 Light Buff No. 359 Middle Buff No. 360 Deep Buff No. 361 Light Stone No. 363 Dark Stone No. 364 Portland Stone No. 388 Biege

BROWN AND PINK No. 410 Light Brown No. 442 Light Salmon Pink No. 444 Terra Cotta

GREY

No. 628 Silver Grey No. 631 Light Grey No. 632 Dark Admiralty Grey No. 634 Slate No. 693 Aircraft Grey No. 697 Light Admiralty Grey WHITE AND BLACK

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INDIAN STANDARDS INSTITUTION

MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG NEW DELHI 110002

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May 1966

(Alternative to IS : 129-1950, IS : 133 - 1965. IS : 641 - 1954, IS : 870 - 1962 and IS : 871 - 1956)

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$\mathbf{0.} \quad \mathbf{FOREWORD}$

0.1 This Indian Standard was adopted by the Indian Standards Institution on 12 April 1966 as an emergency standard. After the original standard had been reviewed by the Paints and Allied Products Sectional Committee and approved by the Chemical Division Council, the emergency character of this standard was removed through Amendment No. 1.

0.2 This standard was originally issued as IS : 3537E-1966 in accordance with the simplified emergency procedures to meet the urgent needs of the country. It was issued as an alternative to the following standards:

IS: 129-1950 Specification for ready mixed paint, brushing, finishing, interior, oil gloss, for general purposes, to Indian Standard colours

IS: 3537 - 1966

- IS: 133-1965 Specification for enamel, interior (a) undercoating, (b) finishing, colour as required (*revised*)
- IS: 641-1964 Specification for ready mixed paint, brushing, finishing, interior, semi-gloss, for general purposes, white (*revised*)
- IS: 870-1962 Specification for ready mixed paint, brushing, finishing, egg shell gloss, for interior use, to Indian Standard colours
- IS: 871-1956 Specification for ready mixed paint, brushing, finishing, egg shell gloss, for interior use, to Indian Standard colours

It was prepared with the assistance of an *ad hoc* Consultative Group composed of representatives of Ministry of Defence; Directorate General of Supplies and Disposals; Ministry of Railways; Indian Paint Association; and other manufacturers, technologists and testing authorities under the convenership of Shri K. N. R. Sharma, Development Officer (Paints), Directorate General of Technical Development, New Delhi.

0.2.1 This standard is expected to help not only in easing the exchange position by stringent foreign replacing imported raw materials with alternative indigenous products but would also economize the use of indigenous raw materials, such as drying oils, which may thus be released for export. In this standard, use of lead and zinc pigments has been eliminated. An amended list of colours now possible under this specification has been given. Restriction in the range of choice of colours to 26 shades, for internal consumption only, has been attempted in order to promote conservation of raw materials, optimization of production and necessary import substitution through rationalization of the requirements of the consumer. As material to this specification may be produced in different types of finish (gloss, semi-gloss, egg shell and matt) while indenting, type of finish required shall be specifically stated.

0.3 This standard contains clause **3.5** which calls for an agreement between the purchaser and the supplier.

0.4 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : $2-1960^*$. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

^{*}Rules for rounding off numerical values (revised).

1. SCOPE

1.1 This standard prescribes the requirements and the methods of sampling and test for ready mixed paint, finishing, interior, for general purposes, with distinctive colours as specified in the title.

2. TERMINOLOGY

2.1 For the purpose of this standard, the definitions given in IS: 101-1964* and IS: 1303-1963† shall apply.

3. REQUIREMENTS

3.1 Composition—The material shall be of such a composition as to satisfy the requirements of this standard.

3.1.1 Zinc oxide and white lead shall not be used.

3.2 The material shall also comply with the requirements given in Table 1.

3.3 Water Content — If water is suspected to be present in the material, it shall not exceed 0.5 percent when tested as prescribed in **14** of IS : 101-1964*.

3.4 Weight in kg/10 litres — The weight in kg/10 litres of the material, when tested in accordance with 25 of IS : $101-1964^*$, shall be within ± 3 percent of the sample approved against the specification, if any.

3.5 Optional Requirements — In addition, if agreed to between the purchaser and the supplier, the spreading capacity, spreading time and wet opacity shall be determined in accordance with the relevant methods of test as given in IS : 101-1964* and the results recorded on the sample offered for approval against the specification. In the case of supplies offered against any approved sample to this specification, these characteristics shall be within 90 percent of the approved sample.

4. PACKING AND MARKING

4.1 Packing—The material shall be packed as agreed to between the purchaser and the supplier.

4.2 Marking — The containers shall be marked with the name of the material; manufacturer's name and trade-mark, if any; volume of the material; and month and year of manufacture.

^{*}Methods of test for ready mixed paints and enamels (*second revision*). †Glossary of terms relating to paints (*revised*).

TABLE 1 REQUIREMENTS FOR READY MIXED PAINT, FINISHING, INTERIOR, FOR GENERAL PURPOSES, **TO INDIAN STANDARD COLOURS**

(Clause 3.2)

| SL No | CHARACTERISTIC | REQUIREMENT | METHOD OF TEST (REF TO CL NO. IN IS : 101-1964*) | | | |
|--|---|---|---|--|--|--|
| (1) | (2) | (3) | (4) | | | |
| i) | Drying time: | | | | | |
| | a) Surface dry b) Hard dry c) Tack free | Not more than 4 hours Not more than 12 hours Not more than 24 hours | 7.1, 7.2 & 7.3 | | | |
| ii) | Consistency | Smooth and uniform, suitable for brushing or spraying, as required | 7.4 | | | |
| iii) | Finish | Smooth and glossv, semi- glossv, egg shell or mass, as required | 7.5 | | | |
| iv) | Colour | Close match to the specified IS colour | 11 | | | |
| v) | Fastness to light | To pass the test | 12 | | | |
| vi) | Scratch hardness | No such scratch as to show the bare metal | 15.1 | | | |
| vii) | Flexibility and adhesion after 96 h air-drying | No visible damage or detach- ment of film | 16 | | | |
| viii) | Stripping test | Scratches free from jagged edges | 17 | | | |
| ix) | Resistance to water (after immersion in water for 24 h) | Gloss retention shall be not less than 60 percent of the gloss of the unimmersed portion | 23 | | | |
| x) | Flash point | Not below 30°C | 24 | | | |
| xi) Keeping properties Not less than one year 31 *Methods of test for ready mixed paints and enamels (<i>Second revision</i>). †This test is applicable only to glossy finishes. | | | | | | |

†This test is applicable only to glossy finishes.

4.2.1 The containers may also be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act and the Rules and Regu-Indian Standards Institution (Certification Marks) Act and the Rules and Regu-lations made thereunder. The ISI Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirments of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained front the Indian Standards Institution. **4.3** Other details of packing and marking shall be in accordance with instructions given by the purchaser.

5. SAMPLING

5.1 Representative samples of the material shall be drawn as prescribed under **3** of IS : 101-1964*.

6. TEST METHODS

6.1 Tests shall be conducted as prescribed in IS : 101-1964*. References to the relevant clauses of IS : 101-1964* are given in **3.3**, **3.4**, **3.5** and in col 4 of Table 1.

6.2 Quality of Reagents — Unless specified otherwise, pure chemicals and distilled water (*see* IS: 1070-1960[†]) shall be employed in tests.

 ${\tt NOTE}$ — 'Pure chemicals' shall mean chemicals that do not contain impurities which affect the results of analysis.

^{*}Methods of test for ready mixed paints and enamels (second revision).

[†]Specification for water, distilled quality (revised).

INTERNATIONAL SYSTEM OF UNITS (SI UNITS)

| Base Units | | | | | | | |
|---|---|---|--|--|--|--|--|
| Quantity | Unit | Symbol | | | | | |
| Length Mass Time Electric current Thermodynamic temperature Luminous Intensity Amount of substance | metre killogram second ampere kelvin candela mole | m kg s A K cd mol | | | | | |
| Supplementary Units Quantity | Unit | Symbol | | | | | |
| Plane angle Solid angle Derived Units | radian steradian | red sr | | | | | |
| Quantity | Unit | Symbol | Conversion | | | | |
| Force Energy Power Flux Flux density Frequency Electric conductance Pressure, stress | newton joule watt weber tesla hertz siemens pascal | N J W Wb T Hz S Pa | 1 N = 1 kg.1 m/s2 1 J = 1 N.m 1 W = 1 J/s 1 Wb = 1 V.s 1 T = 1 Wb/m2 1 Hz = 1 c/s (s-1) 1 S = 1 A/V 1 Pa = 1 N/m3 | | | | |

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