

IS : 427 - 1965
(Reaffirmed 1986)

Indian Standard

SPECIFICATION FOR
DISTEMPER, DRY, COLOUR
AS REQUIRED

(*Revised*)

Seventh Reprint DECEMBER 1996
(Incorporating Amendment No. 1)

UDC 667.633.22

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110602

*Indian Standard*SPECIFICATION FOR
DISTEMPER, DRY, COLOUR
AS REQUIRED*(Revised)*

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Indian Standard

SPECIFICATION FOR DISTEMPER, DRY, COLOUR AS REQUIRED

(*Revised*)

0. FOREWORD

0.1 This Indian Standard (Revised) was adopted by the Indian Standards Institution on 21 December 1965, after the draft finalized by the Paints and Allied Products Sectional Committee had been approved by the Chemical Division Council.

0.2 This standard was first issued in 1953 and was based largely on the *interim* co-ordinated draft drawn up by the Co-ordinating Subcommittee of the No. 5 Standing Committee on Specifications for Paints and Allied Stores of the General Headquarters, India (now Army Headquarters). In a general review of printed Indian Standards on paints and allied materials for revision, this standard has also been considered. All changes for alignment of this standard with the latest revised versions of the series including IS : 101-1964*, have been introduced in this revision. In the original standard, the requirement for fastness to light was rated against an approved sample. However, with a specific time of exposure now stipulated, in the relevant method of test in IS : 101-1964*, the requirement against fastness to light in this revised standard has been suitably modified. Besides, in the test for behaviour towards lime a neat cement block with a lime-panning of not less than 5 mm thickness had been prescribed. It was felt that, as this thickness of lime-panning has a tendency to crack, it would be better to have first a lime-sand plaster on the cement block and then a thin coat of *neeru* finish making a combined total thickness of 5 to 8 mm. This change has been introduced in this revised standard accordingly. Further the test for resistance to washability has been deleted as this specification covers non-washable distemper compositions only. A separate specification for washable distempers would be formulated as and when standardized procedure for washability test and adequate technical data on such compositions is available. Metricization already accomplished through Amendment No. 1, June 1963, has been included in the body of this revision. All other changes found necessary as a result of experience gained through use of this standard during the last decade have also been introduced.

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

0.3 This standard is one of the two Indian Standard specifications on distempers. The other Indian Standard specification is IS : 428-1953*.

0.4 This standard contains clause 3.4 which permits an option for certain additional tests, if agreed to between the purchaser and the supplier.

0.5 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.

1. SCOPE

1.1 This standard prescribes the requirements and the methods of sampling and test for dry distemper, colour as required. The material is used as a flat finish for interior decorative purposes on walls, ceilings, etc.

2. TERMINOLOGY

2.1 For the purpose of this standard, the definitions given in IS : 1303-1963‡ shall apply.

3. REQUIREMENTS

3.1 Form and Condition — The material shall be in the form of a fine dry, homogeneous powder free from odour of putrefaction as such and when mixed with water.

3.2 Composition — The material shall consist of suitable pigments, extenders lime-proof tinters, water-soluble binders and preservatives mixed in suitable proportions to comply with the requirements of this standard.

3.3 Preparation of Sample for Testing — The sample of the material for testing shall be prepared by mixing with suitable quantity of water according to the direction given by the manufacturer for application by brushing.

*Specification for distempers, oil emulsion, colour as required. (Since revised).

†Rules for rounding off numerical values (*revised*).

‡Glossary of terms relating to paints (*revised*).

3.3.1 Panels used for all tests, unless otherwise mentioned, shall be prepared as specified in **3.3.1.1**.

3.3.1.1 Concrete panels — of size $150 \times 150 \times 12.5$ mm, prepared as follows:

Cement (<i>see</i> IS : 269-1967*)	450 g
Sand (<i>see</i> IS : 650-1966†)	900 g
Aggregates (<i>see</i> IS : 383-1970 ‡)	450 g
Water	180 g

Cast the mix into a mould $30 \times 30 \times 12.5$ cm in size, suitably partitioned to give four panels. Trowel cut the top surface of the block after compacting and levelling with a wooden float, taking care that all the material remains in the mould. The blocks are allowed to harden in air for 24 hours and then cured in water for 14 days. They are ready for use after this, and shall be stored in a place free from chemical fumes.

3.4 The material, when mixed with an adequate quantity of water, shall also comply with the requirements given in Table 1.

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 suitably 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; weight of the material; lot and batch number.

*Specification for ordinary, rapid-hardening and low heat portland cement (*second revision*).

†Specification for standard sand for testing of cement (*revised*).

‡Specification for coarse and fine aggregates from natural sources for concrete (*second revision*).

§Methods of test for ready mixed paints and enamels (*second revision*).

TABLE 1 REQUIREMENTS FOR DISTEMPER, DRY, WHEN MIXED WITH ADEQUATE QUANTITY OF WATER, COLOUR AS REQUIRED

(Clause 3.4)

SL No.	CHARACTERISTIC	REQUIREMENT	METHOD OF TEST (REF TO CL NO. IN)	
			Appendix	IS : 101-1964*
(1)	(2)	(3)	(4)	(5)
i)	Drying time, hard dry	Not more than 3 hours on a panel as prescribed in 3.3.1	—	7.1, 7.2 and 7.3
ii)	Consistency	Smooth and uniform mixture suitable for application by brushing	—	7.4
iii)	Finish	Smooth and matt	—	7.5
iv)	Colour	Close match to the specified IS colour where specified	—	11
v)	Fastness to light	To pass the test	—	12
vi)	Residue on sieve, percent by weight, <i>Max</i>	5.0	A	—
vii)	Resistance to dry rubbing	To pass the test	B	—
viii)	Re-coating properties	To pass the test	C	—
ix)	Behaviour towards lime	To pass the test	D	—
x)	Keeping properties	Not less than one year	—	31

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

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 Regulations made thereunder. The ISI 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 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 from the Indian Standards Institution.

4.3 Other details of packing and marking shall be in accordance with the instructions given by the purchaser.

5. SAMPLING

5.1 Representative samples of the material shall be drawn as prescribed under 3 of IS : 33-1963*.

5.2 Number of Tests — Tests for all characteristics specified shall be conducted on the composite sample.

5.3 Criteria for Conformity — The lot shall be considered as conforming to the specification, if the composite sample satisfies all the requirements specified in the standard.

6. TEST METHODS

6.1 Tests shall be conducted as prescribed in 3.1, 3.2 and in col 4 and 5 of Table 1.

6.1.1 For matching to IS colour, IS : 1650-1960† shall be used.

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

NOTE — 'Pure chemicals' shall mean chemicals that do not contain impurities which affect the results of analysis.

*Methods of test for dry pigments and extenders for paints (revised). (Since revised).

†Colour for building and decorative finishes.

‡Specification for water, distilled quality (revised).

APPENDIX A

[*Table 1, Item (vi)*]

DETERMINATION OF RESIDUE ON SIEVE

A-0. GENERAL

A-0.1 Outline of the Method — The material is made into a thin paste with water and passed through a 63-micron IS Sieve.

A-1. PROCEDURE

A-1.1 Weigh accurately not less than 50 g of the sample and transfer to a 250 ml beaker. Mix the material to a thin paste with water and keep for 24 hours. After this period, thoroughly mix the contents of the beaker, and break up all lumps with the flattened end of a stirring rod without grinding action. Then transfer the contents of the beaker to a 63-micron IS Sieve, using a wash-bottle containing water. Remove with a camel-hair brush any small particles of the material that may be retained on the stirring rod or the sides of the beaker. Wash the residue left on the sieve with water and gently brush with a camel-hair brush until the water passing over the residue and through the sieve is clear and free from solid particles. When washing is complete, dry the sieve for one hour at $100^{\circ} \pm 2^{\circ}\text{C}$, cool and then weigh the residue.

A-1.2 Calculate and express the result as percentage by weight of the material taken for the test.

APPENDIX B

[*Table 1, Item (vii)*]

RESISTANCE TO DRY RUBBING

B-0. GENERAL

B-0.1 Outline of the Method — The dry material is converted into consistency suitable for application and then spread on a neat cement block. A second coat is applied and allowed to dry for a specified time. By rubbing the coated material with a piece of cloth, the extent to which the test cloth is soiled as compared to an approved sample of the material similarly tested at the same time, the material is assessed for resistance to dry rubbing.

B-1. PROCEDURE

B-1.1 Mix the material with water to produce material of a suitable consistency for application by brushing. Apply one coat of the mixed material on a clean 150×150 mm block of neat cement and allow to air dry for three hours. Apply a second coat at the end of this period and allow to air dry in a vertical position for 24 hours.

B-1.2 The film shall then be rubbed firmly with a piece of white or black cloth according to the colour of the material.

B-1.3 The requirement of the standard shall be taken as having been satisfied if the test cloth is not soiled by the film prepared from the material to a greater extent than by that prepared from the approved sample, when both are tested by the same person, in the same manner and at the same time.

APPENDIX C

[*Table 1, Item (viii)*]

RE-COATING PROPERTIES**C-0. GENERAL**

C-0.1 Outline of the Method — The material is converted into brushing consistency and a coat applied on a neat cement block. After allowing to dry for a specified time a second coat is applied to test the ability of the material to take the second coat.

C-1. PROCEDURE

C-1.1 Mix the material with water to produce material of a suitable consistency for application by brushing. Apply one coat of the mixed material on a clean 150×150 mm block of neat cement and allow to air dry for three hours. Apply a second coat at the end of this period.

C-1.2 The requirement of the standard shall be taken as having been satisfied if it is possible to apply the second coat without lifting or working up of the first coat.

APPENDIX D

[Table 1, Item (ix)]

TEST FOR BEHAVIOUR TOWARDS LIME

D-0. GENERAL

D-0.1 Outline of the Method — The material is converted into brushing consistency and applied on a *neeru* finish built to a specified thickness on a neat cement block. The coat of the material thus prepared is subjected to a corrosion cabinet test for a specified period after which it is tested for any change in colour.

D-1. PREPARATION OF SUBSTRATUM

D-1.1 This consists of a 150 × 150 mm block of neat cement with a *neeru* finish of 2 to 3 mm thickness. This is prepared as follows.

D-1.1.1 The run lime from slaked quick lime is allowed to mellow for 10 days. The supernatant liquid is then allowed to run off and the top layer of lime putty skimmed and well mixed with fine sand (passing ? mm sieve) in the proportion of 4 : 1 (4 parts lime putty to 1 part sand). This mixture is then ground thoroughly between two stones to yield a paste which is applied to the neat cement block with a steel trowel to a thickness of 2 to 3 mm. This is allowed to dry for 24 hours and then rubbed and polished with felt block. The surface is allowed to cure for one month and then used for carrying out the test.

D-2. PROCEDURE

D-2.1 The material is mixed with water to produce a suitable consistency for application by brushing. The prepared cement block is coated with a uniform normal coat commensurate with satisfactory coverage and appearance of the mixed material. Allow this to air dry in a vertical position for 24 hours. Then suspend this block vertically in a closed corrosion chest of the type described in 18.1 of IS : 101-1964*. Examine the block daily for a period of 7 days.

D-2.2 The requirement of the standard shall be taken as having been satisfied if the film of the material shows no change in colour.

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

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AMENDMENT NO. 2 AUGUST 1988
TO
IS : 427 - 1965 SPECIFICATION FOR
DISTEMPER, DRY, COLOUR AS REQUIRED

(Revised)

(*Page 4, clause 3:3*) — Substitute the following for the existing clause:

3:3 Preparation of Sample for Testing — The sample of the material for testing shall be prepared by mixing with suitable quantity of warm/hot water, according to the direction given by the manufacturer for application by brushing, and it shall be kept for four-hours to allow complete dissolution of glue. ’

(CDC 8)

AMENDMENT NO. 3 SEPTEMBER 1988
TO
IS : 427 - 1965 SPECIFICATION FOR DISTEMPER,
DRY, COLOUR AS REQUIRED

(Revised)

(Page 4, clause 3.4) — Delete.

[Page 5, Table 1, Sl No. (x)] — Add the following new requirement after Sl No. (x):

(1)	(2)	(3)	(4)
xi)	Wet opacity	Between — 10 percent and + 20 percent of the approved sample	10

(CDC 8)

AMENDMENT NO. 4 JUNE 1993
TO
IS 427 : 1965 SPECIFICATION FOR DISTEMPER
DRY COLOUR AS REQUIRED

(First Revision)

(Page 4, clause 0.4) — Add the following after clause 0.4 and renumber the subsequent clauses accordingly:

‘0.5 A scheme for labelling environment friendly products to be known as ECO Mark is being introduced at the instance of the Ministry of Environment and Forests (MEF). The ECO Mark shall be administered by the Bureau of Indian Standards (BIS) under the BIS Act, 1986 as per the Resolution No. 71 dated 20 February 1991 published in the Gazette of the Government of India. For a product to be eligible for ECO Mark it shall also carry standard mark of BIS for quality besides meeting additional optional environment friendly (EF) requirements. This amendment is, therefore, being issued to this standard to include EF requirements for dry distemper.’

(Page 4, clause 2.1) — Substitute the following for the existing:

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

2.1.1 *Volatile Organic Compounds (VOC)* — The volatile matter content minus the water content in dry distemper.’

(Page 5, clause 3.4) — Add the following after 3.4:

‘3.5 **Optional Requirement for ECO Mark**

3.5.1 *General Requirements*

3.5.1.1 The product shall conform to the requirements for quality, safety and performance prescribed under clauses 3.1 to 3.5.

3.5.1.2 The manufacturer shall produce to BIS environmental consent clearance from the concerned State Pollution Control Board as per the provisions of Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981 alongwith the authorization, if required under the Environment (Protection) Act, 1986 and rules made thereunder, while applying for ECO Mark.

3.5.2 Specific Requirements

3.5.2.1 The product shall contain not more than 5 percent, by mass, Volatile Organic Compounds, when tested according to the method prescribed in IS 101 (Part 2/Sec 1): 1988* and IS 101 (Part 2/Sec 2): 1986†.

3.5.2.2 The product shall not contain more than 0.1 percent by mass (as metal), of any toxic metals such as lead, cadmium, chromium (VI) and their compounds when tested by the relevant Atomic Absorption Spectrophotometric methods.

3.5.2.3 The product shall not be manufactured from any carcinogenic ingredients.

NOTE — The Central Drugs Research Institute and Industrial Toxicological Research Centre would furnish a list of carcinogenic ingredients to BIS and would also keep BIS informed about the changes therein.’

(Page 5, clause 4.1) — Add the following after 4.1:

‘4.1.1 The ECO Marked product shall be packed in such packages which shall be recyclable/reusable or biodegradable. It shall be accompanied with instructions for proper use so as to maximise product performance and minimise wastage.’

NOTE — Subsequently the parameters evolved for packaging material/packages for ECOMARK, which are being separately notified/circulated, shall also apply.’

(Page 6, clause 4.2) — Add the following new clause after 4.2:

‘4.2.1 In case of products certified for ECO Mark three major ingredients and hazardous chemicals shall be marked on the container.

4.2.1.1 The criteria for which the product has been been labelled as ECO Mark may also be marked on the container.’

* Methods of sampling and test for paints, varnishes and related products: Part 2 Test on liquid paints (Chemical examination), Sec 1 Water content (*third revision*)

† Methods of sampling and test for paints, varnishes and related products: Part 2 Test on liquid paints (Chemical examination), Sec 2 Volatile matter (*third revision*)

AMENDMENT NO. 5 MARCH 1999
TO
IS 427 : 1965 SPECIFICATION FOR DISTEMPER, DRY,
COLOUR AS REQUIRED .

(Revised)

[*Page 6, Table 1, Sl No. (xi) (see also Amendment No. 3)*] — Delete the characteristic and requirement for 'Wet opacity'.

(CHD 20)

Reprography Unit, BIS, New Delhi, India