

Specification for

# Water-borne emulsion paints for interior use

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# Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Surface Treatments and Coatings Standards Policy Committee (STC/-) to Technical Committee STC/28, upon which the following bodies were represented:

- British Cement Association
- British Coatings Federation Ltd.
- British Decorators' Association
- British Railways Board
- Department for Education
- Department of the Environment (Building Research Establishment)
- European Resin Manufacturers' Association
- Furniture Industry Research Association
- Ministry of Defence
- Oil and Colour Chemists' Association
- Paint Research Association
- Society of Chemical Industry
- Timber Research and Development Association
- Titanium Pigment Manufacturers' Technical Committee
- Union of Construction, allied Trades and Technicians

This British Standard, having been prepared under the direction of the Surface Treatments and Coatings Standards Policy Committee, was published under the authority of the Standards Board and comes into effect on 15 March 1994

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## Foreword

This British Standard has been prepared under the direction of the Surface Treatments and Coatings Standards Policy Committee.

In order to carry out the tests in Annex B and Annex E in this British Standard it is necessary to establish whether, and to what extent, the paint as supplied needs to be thinned and/or stirred before use and the recommended coverage.

Guidance on the use of materials in this specification is given in BS 6150.

*Product certification.* Users of this British Standard are advised to consider the desirability of third party certification of product conformity with this British Standard based on testing and continuing product surveillance which may be coupled with assessment of a supplier's quality systems against the appropriate Part of BS 5750.

Enquiries as to the availability of third party certification schemes are forwarded by BSI to the Association of Certification Bodies. If a third party certification scheme does not already exist, users should consider approaching an appropriate body from the list of Association members.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

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

### Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 8, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

## 1 Scope

This British Standard specifies performance requirements and appropriate methods of test for water-borne emulsion paints for interior use applied by brush, roller or spray techniques. It covers matt and mid-sheen emulsion paints which can be applied to non-metallic substrates, classified into three types covering different circumstances where the paint may be applied. It also specifies requirements for the marking of containers which may be of a range of nominal capacities.

## 2 References

### 2.1 Normative references

This British Standard incorporates, by reference, provisions from specific editions of other publications. These normative references are cited at the appropriate points in the text and the publications are listed on the inside back cover. Subsequent amendments to, or revisions of, any of these publications apply to this British Standard only when incorporated in it by updating or revision.

### 2.2 Informative references

This British Standard refers to other publications that provide information or guidance. Editions of these publications current at the time of issue of this British Standard are listed on the inside back cover, but reference should be made to the latest editions.

## 3 Definitions

For the purposes of this British Standard the definitions given in BS 2015:1992 apply.

## 4 Classification

Emulsion paints conforming to this British Standard shall be classified into three types, as given in Table 1.

## 5 Sampling

For the purposes of the tests referred to in clause 8, a representative sample of the paint, measuring not less than 5 l, shall be taken and packed by the method described in BS 3900-A1:1992. A container of non-corrodible material shall be used.

## 6 Keeping properties

The paint, when stored in its original containers at a temperature between 5 °C and 35 °C for 18 months from the date of manufacture shall conform to clause 8.

## 7 Consistency

The emulsion paint shall be of a consistency that is suitable for application by brush, roller or spray technique, as applicable, after thinning and stirring if necessary, in accordance with the manufacturer's recommendations.

## 8 Performance

### 8.1 Drying time

The paint shall be applied to a clean glass test panel conforming to BS EN 605:1992, at a wet film thickness of  $(55 \pm 5)$  µm and allowed to dry with free access of air at a temperature of  $(23 \pm 2)$  °C and a relative humidity of  $(50 \pm 5)$  % and then tested by the method described in BS EN 29117:1992. The paint film shall be hard-dry in not more than 2 h.

### 8.2 Low temperature film formation

When tested in accordance with Annex A the paint film shall show no visible cracking (when viewed under  $\times 10$  magnification).

### 8.3 Appearance and opacity

**8.3.1** All paints of type B and those of types A and C, other than those having the colours specified in **8.3.2** and **8.3.3**, when prepared and tested in accordance with Annex B using a painting system comprising one sealing coat and one finishing coat shall be smooth, even and free from wet edge defects, runs, flotation or other defects. There shall be no difficulties in application. The ink line shall be completely obliterated.

**8.3.2** Paint of type A and type C conforming to any of the following colour references specified in BS 4800:1989, or colours of similar hue and depth of shade, when prepared and tested in accordance with Annex B using a painting system comprising one sealing coat and two finishing coats, shall be smooth, even and free from wet edge defects, runs, flotation or other defects. The ink line shall be completely obliterated.

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|---------|---------|
| 00 E 55 | 10 E 50 |
| 04 B 15 | 12 D 43 |
| 08 B 15 | 10 E 49 |
| 10 B 15 | 04 E 49 |
| 12 B 15 | 08 C 31 |
| 22 B 15 | 10 C 31 |
| 06 C 39 | 18 C 31 |
| 06 D 43 | 18 E 49 |
| 06 E 50 |         |