

Methods of Test for Paints —

Part D4: Comparison of contrast ratio (hiding power) of paints of the same type and colour

It is recommended that this Part be read in conjunction with the general information in the Introduction to BS 3900, issued separately (revised edition published March 1969).

NOTE This method is technically identical with International Standard ISO 2814 “*Paints and varnishes, comparison of contrast ratio (hiding power) of paints of the same type and colour*”.

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Foreword

This Part of this British Standard is one of a series dealing with the sampling and testing of paints, varnishes and related products. It should be read in conjunction with BS 3900-A1, “*Sampling*” and Part A2, “*Examination and preparation of samples for testing*”.

The method specified in this Part is technically identical with the corresponding International Standard ISO 2814. The method, a comparison of contrast ratios of films drawn down on a blade and white substrate at equal wet film thickness, is the simplest of those investigated and has been found to give a reproducible comparison for paints of the same type. Because different operators using the same film coating device have been found to obtain films differing significantly in thickness, probably due to variation in pressure on the applicator, the method is not satisfactory as an absolute method for the determination of hiding power; the development of an International Standard for this is still in progress.

The objective in this work was to standardize a method relating closely to practical application. For this reason the wet film thickness, which is directly related to spreading rate, has been specified in preference to the dry film thickness or mass. The wet film thickness selected, approximately 50 µm, corresponds to a spreading rate of approximately 20 m² per litre; for most paints, this represents an average for brush application of a free-flowing paint on a smooth non-porous surface.

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 and 2 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.

Amendments issued since publication

Amd. No.	Date	Comments

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