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Edition 1

Any reference to SABS ISO 1517 is deemed
to be a reference to this standard
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SOUTH AFRICAN NATIONAL STANDARD

Paints and varnishes — Surface-drying test — Ballotini method

This national standard is the identical implementation of ISO 1517: 1973 and is adopted with the permission of the International Organization for Standardization.

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Table of changes

Change No.	Date	Scope
Nat. amdt 1	2006	Amended to change the designation from SABS to SANS, with no technical changes.

National foreword

This South African standard was approved by National Committee StanSA SC 5140.111, *Paints and varnishes – Test methods*, in accordance with procedures of Standards South Africa, in compliance with annex 3 of the WTO/TBT agreement.

This SANS edition is technically identical to SABS ISO 1517:1973.

INTERNATIONAL STANDARD



1517

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Paints and varnishes — Surface-drying test — Ballotini method

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Descriptors : paints, varnishes, tests, drying.

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up has the right to be represented on that Committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

Prior to 1972, the results of the work of the Technical Committees were published as ISO Recommendations; these documents are now in the process of being transformed into International Standards. As part of this process, International Standard ISO 1517 replaces ISO Recommendation R 1517-1970 drawn up by Technical Committee ISO/TC 35, *Paints and varnishes*.

The Member Bodies of the following countries approved the Recommendation :

Australia	Iran	South Africa, Rep. of
Austria	Ireland	Spain
Denmark	Israel	Sweden
Egypt, Arab Rep. of	Italy	Switzerland
France	Netherlands	Turkey
Germany	Peru	United Kingdom
Greece	Poland	U.S.S.R.
India	Portugal	

No Member Body expressed disapproval of the Recommendation.

Paints and varnishes — Surface-drying test — Ballotini method

0 INTRODUCTION

This International 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 ISO 1512, ISO 1513 and ISO 1514.

The method of test specified requires to be completed, for any particular application, by the following supplementary information. This information should be derived from the national standard or other document for the material under test or, where appropriate, should be the subject of agreement between the interested parties.

- a) Nature and surface preparation of substrate.
- b) Method of application of test coating to substrate.
- c) Thickness, in micrometres, of the dry coating, including method of measurement, and whether it is a single coating or a multicoat system.
- d) Duration and conditions of drying of primer and/or undercoat before testing.
- e) Duration of drying before testing, if applicable.

1 SCOPE AND FIELD OF APPLICATION

1.1 This International Standard specifies a method for determining the surface-drying characteristics of a coating of a paint or varnish which dries by the action of air or by chemical reaction of its components.

The method is not intended to apply to stoving products.

1.2 The method described may be carried out

either as a “go/no go” test, by determining the surface-drying state after a specified time, to assess compliance with a particular requirement,

or by determining the surface-drying state at suitable intervals until the surface-drying time is obtained.

2 REFERENCES

ISO 1512, *Paints and varnishes — Sampling.*

ISO 1513, *Paints and varnishes — Examination and preparation of samples for testing.*

ISO 1514, *Paints and varnishes — Standard panels for testing.*

ISO 2808, *Paints and varnishes — Determination of film thickness.*

3 DEFINITIONS

3.1 surface-drying state : General term describing the state of the surface of a coating of paint or varnish, i.e. whether “surface-dry” or not.

3.2 surface-dry : Surface-drying state of a coating of paint or varnish when ballotini can be lightly brushed away without damaging the surface of the coating.

3.3 surface-drying time : Period of time between that at which a coating of paint or varnish is applied to a prepared test panel and that at which the coating is assessed as just surface-dry by the test procedure specified in clause 7.

4 APPARATUS

4.1 Ballotini (small transparent glass spheres).

The material shall be obtained by sieving from a suitable commercial grade of ballotini and shall be graded so that none passes a sieve of nominal mesh aperture 125 μm and all passes a sieve of nominal mesh aperture 250 μm .

4.2 Brush, soft-haired.

4.3 Stop-watch or **stop-clock**.