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(JPMA/JSA)

**Testing methods for paints—
Part 2: Characteristics and stability
of paints—Section 6: Pot life**

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In the event of any doubts arising as to the contents,
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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Paint Manufacturers Association (JPMA)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS K 5600-2-6:1999** is replaced with this Standard.

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JIS K 5600 series consists of the following 9 parts under the general title “*Testing methods for paints*”:

Part 1: General rule

Part 2: Characteristics and stability of paints

Part 3: Film formability

Part 4: Visual characteristics of film

Part 5: Mechanical property of film

Part 6: Chemical property of film

Part 7: Long-period performance of film

Part 8: Evaluation of degradation of paint coatings

Part 9: Coating powders

JIS K 5600-2 consists of the following 7 parts under the title of “*Testing methods for paints—Part 2: Characteristics and stability of paints*”:

Section 1: Colour number (Visual method)

Section 2: Viscosity

Section 3: Viscosity (Corn and plate methods)

Section 4: Density (Pyknometer method)

Section 5: Fineness of grind

Section 6: Pot life

Section 7: Storage stability

Testing methods for paints— Part 2: Characteristics and stability of paints—Section 6: Pot life

Introduction

This Japanese Industrial Standard has been prepared based on the second edition of **ISO 9514** published in 2005 with some modifications of the technical contents.

The portions given sidelines or dotted underlines are the matters in which the contents of the corresponding International Standard have been modified. A list of modifications with the explanations is given in Annex JA.

1 Scope

This Standard describes a method for preparing and storing a sample of a multicomponent coating system and subsequently assessing its pot life by measuring a particular property/ies.

Reactive systems curing within a short period of time, e.g. 3 h, will have the end of their pot life so near to the gel point that they will need to be tested for that particular property in accordance with JIS K 6901.

Special “low temperature” grade systems will need to be tested at a lower specified temperature than the one agreed between the interested parties to reflect the conditions under which they will be used in practice.

Additionally, it can be a requirement to determine pot life at a specified temperature or temperatures in order to cover a range of practical conditions under which a paint will be used.

The method can be carried out either:

- a) as a pass/fail test by determining the particular property/ies after a specified period of time;
- b) as determination of the pot life by repeating determinations at convenient intervals of time.

This Standard is not intended for in situ control of products during their application. It is intended to determine “pot life” in the laboratory.

NOTE 1 The value obtained from this test method can be subject to modification by suppliers for practical reasons (e.g. starting temperature) when giving advice to users and should then be called the “practical pot life”.

NOTE 2 The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 9514:2005 *Paints and varnishes—Determination of the pot life of multicomponent coating systems—Preparation and conditioning of samples and guidelines for testing* (MOD)