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Paints and varnishes — Determination of the pot life of multicomponent coating systems — Preparation and conditioning of samples and guidelines for testing

Peintures et vernis — Détermination du délai maximal d'utilisation après mélange des systèmes de revêtement multicomposants — Préparation et conditionnement des échantillons et lignes directrices pour les essais

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*.

This third edition cancels and replaces the second edition (ISO 9514:2005), of which it constitutes a minor revision.

The main changes compared to the previous edition are as follows:

— reference to "low temperature" coating systems have been deleted because they are not defined and it is not clear which systems are covered;

— the description of the conditioning chamber (former 6.2) has been deleted;

— the clause (former Clause 10) on precision has been deleted because no precision data on pot life determined by a specific test method are available;

— poly(vinyl butyrate) and alkyd melamines (acid-catalysed) have been deleted from Table A.1;

— the text of the former notes to the principle bave been moved to the new introduction;

— the text has been editorially revised;

— the normative references have been updated;

— the required supplementary information (former Annex A) have been included in the test report.

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document specifies the conditions for preparing and storing a sample in order to assess the pot-life. These conditions are near to adiabatic so that they bear a close relationship to those which exist in practice, e.g. mixing fairly large volumes of liquid reactive systems for use.

The pot life is dependent on a variety of properties, depending on the reactive system involved. Because of this variety, the pot-life can only be specified with reference to a particular property. Guidance on the property/ies to be tested for various reactive systems is given in Annex A.