

ICS

English version

**Adhesives - Adhesives for paper and board, packaging and
disposable sanitary products - Description and assessment of
the setting process**

This CEN Report was approved by CEN on 30 November 2001. It has been drawn up by the Technical Committee CEN/TC 193.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

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Foreword

This document (CR 14376:2002)) has been prepared by Technical Committee CEN/TC 193 "Adhesives", the secretariat of which is held by AENOR.

This Report includes an informative Annex A.

Introduction

The setting of an adhesive is a complex process, during which the adhesive develops its cohesive strength.

It takes place in several phases which are affected by numerous factors e.g. environmental conditions, substrates, coating weight, etc. Terms commonly used, related to the setting process are e.g. open time (correctly termed maximum open time), wet tack, hot tack, green tack, closed time, setting time.

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1 Scope

This Report defines the terms of the setting process in detail, and describes the various aspects of the testing procedures used to assess the setting process.

2 Normative references

This CEN Report incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this CEN Report only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 923, *Adhesives - Terms and definitions*

EN 1066, *Adhesives - Sampling*

ISO 291, *Plastics - Standard atmospheres for conditioning and testing*

3 Terms and definitions

For the purpose of this CEN Report the terms and definitions in accordance with EN 923 and the following apply.

3.1

setting

process by which an adhesive develops its cohesive strength and thus the physical and chemical properties of its bond

NOTE The development can be effected by physical changes (gelation, hydration, cooling, evaporation of volatile constituents) and/or chemical reactions (polymerization, crosslinking, oxidation, curing).

[EN 923:1998]

3.2

setting time

period of time necessary for an adhesive to set under the specified conditions

[EN 923:1998]

3.3

maximum open time

maximum time interval after which an adhesive coat being applied loses its bonding ability

[EN 923:1998]

4 Safety

Persons using this Report shall be familiar with normal laboratory practice. This document does not purport to address all the safety problems, if any, associated with its use it is the responsibility of the user to establish safety and health practices and to ensure compliance with any European and national conditions.