



National Standards Authority of Ireland

TECHNICAL GUIDE

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ICS 83.180

**ADHESIVES – GUIDE TO TEST METHODS
AND OTHER STANDARDS FOR THE
GENERAL REQUIREMENTS,
CHARACTERIZATION AND SAFETY OF
STRUCTURAL ADHESIVES**

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English version

**Adhesives – Guide to test methods and other standards for the
general requirements, characterization and safety of structural
adhesives**

Adhésifs – Guides des méthodes d'essai et d'autres
normes pour les spécifications générales, la caractérisation
et la sûreté des adhésifs structuraux

Klebstoffe – Anleitung zur Anwendung von Prüfverfahren
und anderen Normen für allgemeine Anforderungen,
Charakterisierung und Sicherheit von Strukturklebstoffen

This Technical Report was approved by CEN on 2 January 2003. It has been drawn up by the Technical Committee CEN/TC 193.

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Foreword

This document (CEN/TR 14548:2003) has been prepared by Technical Committee CEN/TC 193 “Adhesives”, the secretariat of which is held by AENOR.

CEN/TR 14548:2003 (E)

1 Scope

This Technical Report identifies and categorises the European and International Standards relating to structural adhesives. It encompasses the methods used to both prepare and assess surfaces and to determine the general characteristics of structural adhesives. Additionally, it provides methods for gauging the performance of structural adhesives under load and the means of obtaining design data. Standards relating to safety, storage and product life are also provided.

NOTE In this Technical Report safety does not refer to the mechanical integrity of bonded joints.

2 References

This Technical 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 Technical 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 542, *Adhesives - Determination of density.*

EN 543, *Adhesives - Determination of apparent density of powder and granule adhesives.*

EN 827, *Adhesives - Determination of conventional solids content and constant mass solids content .*

EN 828, *Adhesives - Wettability - Determination by measurement of contact angle and critical surface tension of solid surface.*

EN 923:1998, *Adhesives - Terms and definitions.*

EN 924, *Adhesives - Solvent-borne and solvent-free adhesives - Determination of flashpoint.*

EN 1066, *Adhesives - Sampling.*

EN 1067, *Adhesives - Examination and preparation of samples for testing.*

EN 1239, *Adhesives - Freeze-thaw stability.*

EN 1244, *Adhesives - Determination of the colour and/or colour changes of adhesive coats under the influence of light.*

EN 1245, *Adhesives - Determination of pH - Test method.*

EN 1464, *Adhesives - Determination of peel resistance of high-strength adhesive bonds - Floating roller method (ISO 4578:1990 modified)*

EN 1465, *Adhesives - Determination of tensile lap-shear strength of rigid-to-rigid bonded assemblies (ISO 4578:1990 modified)*

EN 1965-1, *Structural adhesives - Corrosion - Part 1 : Determination and classification of corrosion to a copper substrate.*

EN 1965-2, *Structural adhesives - Corrosion - Part 2 : Determination and classification of corrosion to a brass substrate.*

EN 1966, *Structural adhesives - Characterisation of a surface by measuring adhesion by means of the three point bending method.*

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