
Lepila - Preskusna metoda za lepila za talne in stenske obloge - Strižni preskus

Adhesives - Test method for adhesives for floor and wall coverings - Shear test

Klebstoffe - Prüfverfahren für Klebstoffe für Boden- und Wandbeläge - Scherversuch

Adhésifs - Méthode d'essais d'adhésifs pour revêtements de sol et muraux - Essai de cisaillement

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ICS:

83.180 Lepila Adhesives

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 1373

June 1999

ICS 83.180

English version

Adhesives - Test method for adhesives for floor and wall coverings - Shear test

Adhésifs - Méthode d'essais d'adhésifs pour revêtements de sol et muraux - Essai de cisaillement

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This European Standard was approved by CEN on 6 May 1999.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 193 "Adhesives", the secretariat of which is held by AENOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 1999, and conflicting national standards shall be withdrawn at the latest by December 1999.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Standard specifies a test method to measure the adhesion of a resilient or textile floor covering or wall covering bonded to a given substrate under shear forces. The term "wall covering" does not include any type of wallpaper.

2 Normative references

This European Standard 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 European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 923	Adhesives - Terms and definitions
EN 1066	Adhesives - Sampling
EN 1067	Adhesives - Examination and preparation of samples for testing
EN 10002-2	Metallic materials - Tensile testing - Part 2: Verification of the force measuring system of the tensile testing machines
EN 29142:1993	Adhesives - Guide to the selection of standard laboratory ageing conditions for testing bonded joints (ISO 9142:1990)
ISO 554	Standard atmospheres for conditioning and/or testing - Specifications
ISO 3205	Preferred test temperatures

3 Definitions

For the purposes of this standard, the following definitions and the definitions given in prEN 923, apply:

3.1 covering: Flexible resilient or textile floor covering or wall covering.

3.2 adhesives for coverings: Adhesives which are intended to produce firm and durable bonds between coverings and various substrates.

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4 Principle

The adhesion is determined by measuring the shear strength under specified conditions before and after storing the bonds at 23 °C or 50 °C under specified conditions.

5 Safety

Persons using this standard shall be familiar with normal laboratory practice.

This standard 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 regulatory conditions.

6 Apparatus and material

6.1 Adhesive applicator: serrated blade with a notch size specified by the adhesive manufacturer (example see figure 1).

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Dimensions in millimetres

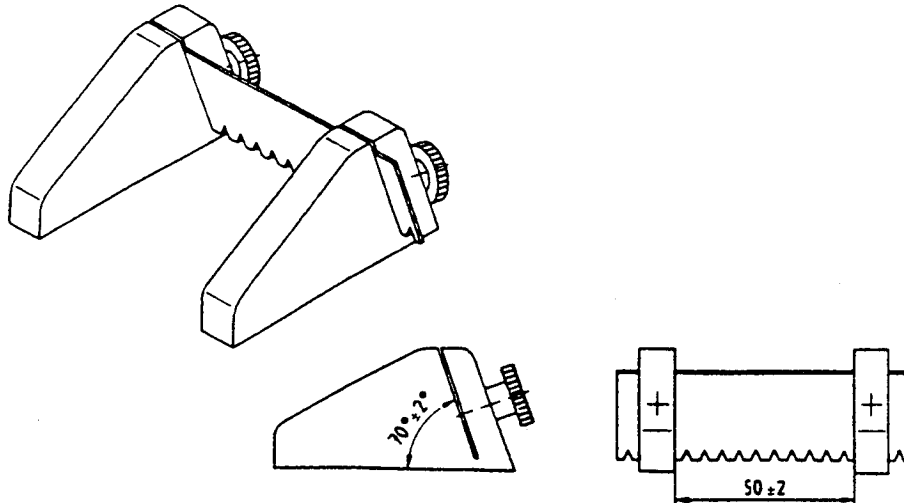


Figure 1: Adhesive applicator

6.2 **Roller**, of width (60 ± 1) mm, diameter (92 ± 1) mm and total mass $(3,5 \pm 0,01)$ kg with handle at 90° to the axis.

6.3 **Heating oven**, with air circulation conforming to 5.2 of EN 29142:1993.

6.4 **Tensile testing machine**, conforming to EN 10002-2, class 1.

6.5 **Test covering**, five test pieces for each conditioning sequence of dimensions 60 mm x 50 mm, the long side, running in the machine direction where this can be identified, and shall be taken at least 100 mm from the edge.

6.6 **Uncoated fibre cement panels**, fully compressed and autoclaved, asbestos free. Five fibre cement panels for each conditioning sequence of dimensions 60 mm x 50 mm x 7,5 mm.

7 Preparation of the test specimens

7.1 Cleaning

Ensure that all test coverings and fibre cement panels are clean and free from dust, loose particles or other contamination.

7.2 Sampling and examination of adhesive

Take a sample of the adhesive to be tested in accordance with EN 1066, examine and prepare it for testing in accordance with EN 1067.

7.3 Conditioning of adhesive, coverings and uncoated fibre cement panels

Condition all the components used in a standard atmosphere 23/50 in accordance with ISO 554 for at least 24 h before making the test specimens.

7.4 Application of adhesive

Place masking tape across one end of the less shiny side of each fibre cement panel so as to leave 20 mm length to be coated with adhesive.

Then apply the adhesive under test across the full width of the fibre cement panel and draw the applicator (see 6.1) steadily down the length of the panel to provide a uniform adhesive application.

Remove the masking tape when the adhesive has been applied. When applying the adhesive, it is essential that the serrated blade is kept clean and free of adhesive build-up. Clean the blade regularly (no more than five fibre cement panels to be prepared without cleaning). In addition, regularly check the notch size and depth, especially where non-hardened steel blades are in use.

7.5 Bonding of the test covering

After a minimum open time in accordance with EN 923, as indicated by the adhesive manufacturer, and recorded in the test report, place the test covering (see 6.5) onto the uncoated fibre cement panel (see 6.6) to provide an overlap of 20 mm such that the unbonded length protrudes from the edge of the panel coated with adhesive (see figure 2)

Dimensions in millimetres

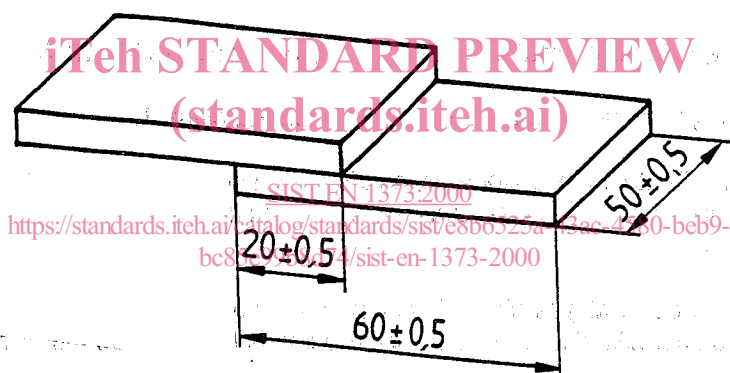


Figure 2: Shear test specimen

Immediately after positioning the test covering, roll the test specimen with a roller (see 6.2) by passing forward and backward once along the test specimen without any additional pressure being applied.

NOTE 1: As the adhesive has not yet set it should be ensured that the overlapping area remains 20 mm x 50 mm without any shift during the subsequent treatments of the test coverings.

Before applying the roller it is advisable to support the unbonded area of the test covering by an additional 6 mm thick fibre cement panel in order to avoid tilting.

To prevent covering from slipping caused by the roller an appropriate frame or mould for the fibre cement sheets in combination with range spacers can be used for the covering.

NOTE 2: For coverings which show a tendency to curl after rolling, a dead load of $(2 \pm 0,1)$ kg mass can be applied for $(3 \pm 0,5)$ h. The load is spread evenly over the whole surface thus ensuring a contact over the total bonded area of each test specimen. The procedure applied should be recorded in the test report (see 11 h).

8 Conditioning of the test specimens

After assembly, expose the test specimens to the conditions as given in table 1.

Table 1: Conditioning

Control test	Test I	Test II ¹
28 days at a standard atmosphere 23/50 (see ISO 554)	7 days at a standard atmosphere 23/50 (see ISO 554)	
	20 days at (50 ± 2)°C (see ISO 3205)	41 days at (50 ± 2)°C (see ISO 3205)
	1 day at a standard atmosphere 23/50 (see ISO 554)	
¹ This test to be optional for determining the effect of any type of interaction between an adhesive and a covering.		

9 Test procedure

Clamp the ends of the test specimen in appropriate clamps of the tensile testing machine (6.4) using packings to ensure that the axis of the test specimen is aligned with the direction of the clamp movement (see figure 3).

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