



SLOVENSKI STANDARD

SIST EN ISO 10591:2001

01-december-2001

Gradnja objektov - Tesnilne mase - Ugotavljanje adhezijskih/kohezijskih lastnosti po namakanju v vodi

Building construction - Sealants - Determination of adhesion/cohesion properties after immersion in water (ISO 10591:1991)

Hochbau - Fugendichtstoffe - Bestimmung des Haft- und Dehnverhaltens nach dem Tauchen in Wasser (ISO 10591:1991)

Construction immobiliere - Mastics - Détermination des propriétés d'adhésivité/cohésion apres immersion dans l'eau (ISO 10591:1991)

<https://standards.iteh.ai/catalog/standards/sist/38ceae3-6e68-48d8-844a-63a30afb50f1/sist-en-iso-10591-2001>

Ta slovenski standard je istoveten z: EN ISO 10591:1997

ICS:

91.100.50 Veziva. Tesnilni materiali Binders. Sealing materials

SIST EN ISO 10591:2001

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 10591

September 1997

ICS 91.100.50

Descriptors: see ISO document

English version

Building construction - Sealants - Determination of
adhesion/cohesion properties after immersion in water (ISO
10591:1991)

Construction immobilière - Mastics - Détermination des
propriétés d'adhésivité/cohésion après immersion dans
l'eau (ISO 10591:1991)

Hochbau - Fugendichtstoffe - Bestimmung des Haft- und
Dehnverhaltens nach dem Tauchen in Wasser (ISO
10591:1991)

This European Standard was approved by CEN on 26 September 1997.

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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EN ISO 10591:1997

Foreword

The text of the International Standard from Technical Committee ISO/TC 59 "Building construction" of the International Organization for Standardization (ISO) has been taken over as an European Standard by the Technical Board of CEN.

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 March 1998, and conflicting national standards shall be withdrawn at the latest by March 1998.

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.

Endorsement notice

The text of the International Standard ISO 10591:1991 has been approved by CEN as a European Standard without any modification.

NOTE: Normative references to International Standards are listed in annex ZA (normative).



Annex ZA (normative)**Normative references to international publications
with their relevant European publications**

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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 6927	1981	Building construction - Jointing products - Sealants - Vocabulary	EN 26927	1990

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INTERNATIONAL STANDARD

**ISO
10591**

First edition
1991-11-01

Building construction — Sealants — Determination of adhesion/cohesion properties after immersion in water

iTeh STANDARD PREVIEW

*Construction immobilière — Mastics — Détermination des propriétés
d'adhésivité/cohésion après immersion dans l'eau*

SIST EN ISO 10591:2001

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Reference number
ISO 10591:1991(E)

ISO 10591:1991(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 10591 was prepared by Technical Committee ISO/TC 59, *Building construction*, Sub-Committee SC 8, *Jointing products*.

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Building construction — Sealants — Determination of adhesion/cohesion properties after immersion in water

1 Scope

This International Standard specifies a method for the determination of the influence of water immersion on adhesion/cohesion properties of sealants used in joints in building construction.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 6927:1981, *Building construction — Jointing products — Sealants — Vocabulary*.

3 Definitions

For the purposes of this International Standard, the definitions given in ISO 6927 apply.

4 Principle

Preparation of test specimens and reference specimens in which the sealant to be tested adheres to two parallel contact surfaces. After submission of the test specimens to water immersion under defined conditions, test specimens and reference specimens are extended to rupture and the force/strain diagrams recorded.

5 Apparatus

5.1 Concrete and/or aluminium and/or flat glass supports, for the preparation of test specimens (two supports are required for each specimen), of dimensions as shown in figures 1 and 2.

5.2 Spacers, of dimensions 12 mm × 12 mm × 12,5 mm, with anti-adherent surface for the preparation of the test specimens (see figures 1 and 2).

NOTE 1 — If spacers are made of material to which the sealant adheres, their surfaces should be made anti-adherent, e.g. by a thin wax coating.

5.3 Anti-adherent substrate, for the preparation of test specimens, e.g. polytetrafluoroethylene (PTFE) film or vellum paper, preferably according to the advice of the sealant manufacturer.

5.4 Test machine, with recording device, capable of extending the test specimens at a rate of 5 mm/min to 6 mm/min.

5.5 Ventilated convection-type oven, capable of being controlled at $70\text{ °C} \pm 2\text{ °C}$.

5.6 Container, for immersing the test specimens in water.

6 Preparation of test specimens and reference specimens

Three test specimens and three reference specimens for each support material to be used shall be prepared at the same time.

For each test specimen two supports (5.1) and two spacers (5.2) shall be assembled according to figures 1 and 2 and set up on the anti-adherent substrate (5.3), which should be wetted by water with addition of detergents to facilitate later removal from the test specimens.