

**Gradnja objektov - Tesnilne mase - Ugotavljanje adhezijskih/
kohezijskih lastnosti po namakanju v vodi
(prevzet standard ISO 10591:1991 z metodo platnice)**

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 ISO 10591:1996](#)

<https://standards.iteh.ai/catalog/standards/sist/7a049478-13db-41d3-82db-04c6b2120ebf/sist-iso-10591-1996>

Deskriptorji: stavbe, stiki, materiali za tesnjenje, kit, preskusi, adhezijski preskusi, kohezijski preskusi, namakanje, voda

ICS: 91.100.50

Referenčna številka
SIST ISO 10591:1996 ((sl),en)

Nadaljevanje na straneh od II do III in od 1 do 3

UVOD

Standard SIST ISO 10591 ((sl),en), Gradnja objektov - Tesnilne mase - Ugotavljanje adhezijskih/kohezijskih lastnosti po namakanju v vodi, prva izdaja, 1996, ima status slovenskega standarda in je z metodo platnice prevzet mednarodni standard ISO 10590, Building construction - Sealants - Determination of adhesion/cohesion properties after immersion in water, First edition, 1991-11-01, v angleškem jeziku.

NACIONALNI PREDGOVOR

Mednarodni standard ISO 10591:1991 je pripravil tehnični odbor Mednarodne organizacije za standardizacijo ISO/TC 59 Gradnja poslopij, pododbor SC 8 Sredstva za stikovanje.

Odločitev za prevzem tega standarda po metodi platnice je sprejela delovna skupina USM/TC GPO/WG 3 Stiki, potrdil pa tehnični odbor USM/TC GPO Gradnja poslopij.

Ta slovenski standard je dne 1996-11-21 odobril direktor USM.

ZVEZA S STANDARDOM

S prevzemom tega mednarodnega standarda velja naslednja zveza:

SIST EN 26927

Gradnja objektov - Sredstva za stikovanje - Tesnilne mase - Slovar (ISO 6927:1981)

OSNOVA ZA IZDAJO STANDARDA *iTeh STANDARD PREVIEW* *(standards.iteh.ai)*

OPOMBI

[SIST ISO 10591:1996](#)

<https://standards.iteh.ai/catalog/standards/sist/7a049478-13db-41d3-82db-04c082120081sist-049478-13db-41d3>

- Povsod, kjer se v besedilu standarda uporablja izraz mednarodni standard , v SIST ISO 10591:1996 to pomeni slovenski standard .
- Uvod in nacionalni predgovor nista sestavni del standarda.

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Po mnenju Ministrstva za informiranje Republike Slovenije z dne 18. februarja 1992, štev. 23/96-92, spada ta publikacija med proizvode informativne narave iz 13. točke tarifne številke 3, za katere se plačuje 5-odstotni prometni davek.

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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 ISO 10591:1996](#)

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Reference number
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.

THE STANDARD PREVIEW (standards.iteh.ai)

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

SIST ISO 10591:1996

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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 °C ± 2 °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.

The instructions of the sealant manufacturer, for instance whether a primer is to be used, shall be followed.

The hollow volume formed by supports and spacers shall be filled with sealant previously conditioned for 24 h at $23^{\circ}\text{C} \pm 2^{\circ}\text{C}$. The following precautions shall be taken:

- avoid the formation of air bubbles;
- press the sealant on the inner surfaces of the supports;
- trim the sealant surface so that it is flush with the faces of the supports and spacers.

The test specimens shall be set on edge on one of the supports and the anti-adherent substrate shall be removed as soon as possible. The specimens shall rest in this position to allow curing or optimum drying of the sealant. The spacers shall be maintained in place during conditioning.

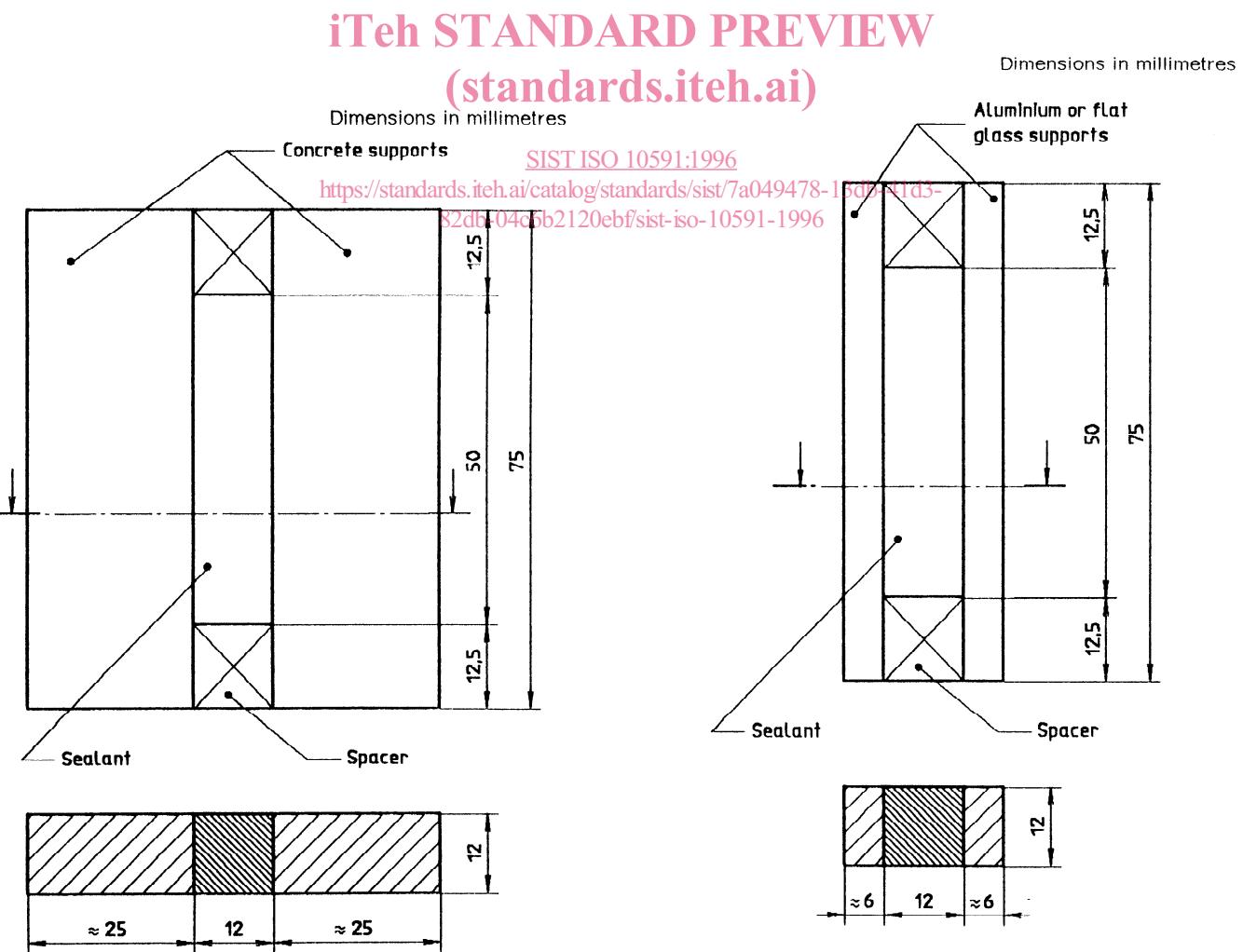


Figure 1 — Test specimen with concrete supports

7 Conditioning

Test specimens and reference specimens shall be conditioned either in accordance with method A (7.1) or method B (7.2), as agreed between the parties concerned.

7.1 Method A

The specimens shall be conditioned for 28 days at $23^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and (50 \pm 5) % relative humidity.

7.2 Method B

The specimens shall be conditioned according to method A and shall then be subjected three times to the following storage cycle:

- 3 days in the oven (5.6) at $70^{\circ}\text{C} \pm 2^{\circ}\text{C}$;
- 1 day in distilled water of temperature $23^{\circ}\text{C} \pm 2^{\circ}\text{C}$;
- 2 days in the oven (5.6) at $70^{\circ}\text{C} \pm 2^{\circ}\text{C}$;

Figure 2 — Test specimen with aluminium or flat glass supports