

**Building construction - Jointing products -  
Determination of adhesion/cohesion  
properties of sealants after exposure to  
heat and artificial light through glass and to  
water**

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sealants after exposure to heat and artificial light  
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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 11431:2003 sisaldab Euroopa standardi EN ISO 11431:2002 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 18.02.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 11431:2003 consists of the English text of the European standard EN ISO 11431:2002.</p> <p>This document is endorsed on 18.02.2003 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b></p> <p>This International Standard specifies a method for the determination of adhesion/cohesion properties of sealants after cyclic exposure to heat and artificial light followed by a period of exposure to water at a defined temperature</p>	<p><b>Scope:</b></p> <p>This International Standard specifies a method for the determination of adhesion/cohesion properties of sealants after cyclic exposure to heat and artificial light followed by a period of exposure to water at a defined temperature</p>
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**ICS** 91.100.50

**Võtmesõnad:** construction materials, definition, definitions, elongation, expansions, exposure, heat resistance, hydrolytic resistance, light-fastness, putty, sealants, sealing compounds, sealing materials, strain behaviour, testing, water, water-resistance tests

**English version**

Building construction  
**Jointing products**

Determination of adhesion/cohesion properties of sealants after  
exposure to heat, water and artificial light through glass  
(ISO 11431 : 2002)

Construction immobilière – Produits  
pour joints – Détermination des  
propriétés d'adhésivité/cohésion des  
mastics après exposition à la chaleur,  
à l'eau et à la lumière artificielle à  
travers le verre (ISO 11431 : 2002)

Hochbau – Fugendichtstoffe –  
Bestimmung des Haft- und Dehn-  
verhaltens von Dichtstoffen nach  
Einwirkung von Wärme, Wasser  
und künstlichem Licht durch Glas  
(ISO 11431 : 2002)

This European Standard was approved by CEN on 2002-07-11.

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 Management Centre or to any CEN member.

The European Standards exist 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 Management Centre has the same status as the official versions.

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

**CEN**

European Committee for Standardization  
Comité Européen de Normalisation  
Europäisches Komitee für Normung

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

## Foreword

International Standard

ISO 11431 : 2002 Building construction – Jointing products – Determination of adhesion/cohesion properties of sealants after exposure to heat, water and artificial light through glass, which was prepared by ISO/TC 59 'Building construction' of the International Organization for Standardization, has been adopted by CEN/CMC as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by February 2003 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

## Endorsement notice

The text of the International Standard ISO 11431 : 2002 was approved by CEN as a European Standard without any modification.

NOTE: Normative references to international publications are listed in Annex ZA (normative).

## 1 Scope

This International Standard specifies a method for the determination of the adhesion/cohesion properties of sealants after cyclic exposure to heat and artificial light followed by a period of exposure to water at a defined temperature.

NOTE The cyclic exposure of the test specimens to water and to radiation and heat is meant to simulate the exposure of sealants in service to natural weather conditions. The acceleration factor in comparison with the real situation is unknown. The intention is not to receive durability data for the sealants under evaluation but to ensure a minimum performance in glazing applications.

## 2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 4892-1:1999, *Plastics — Methods of exposure to laboratory light sources — Part 1: General guidance*

ISO 4892-2, *Plastics — Methods of exposure to laboratory light sources — Part 2: Xenon-arc sources*

ISO 6927, *Building construction — Jointing products — Sealants — Vocabulary*

ISO 13640, *Building construction — Jointing products — Specifications for test substrates*

CIE Publication No. 85:1989, *Technical Report — Solar spectral irradiance*

## 3 Terms and definitions

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

## 4 Principle

Specimens are prepared in which the sealant to be tested adheres to two parallel glass surfaces. After submitting the specimens to a cyclic exposure to artificial light at elevated temperature and to water, the specimens are extended to a defined width. After maintenance of the extension for a defined time, the specimens are examined for evidence of loss of adhesion or cohesion.