



SLOVENSKI STANDARD
SIST EN 1347:1998
01-april-1998

Opredeljena sposobnost pri vlaženju

Adhesives for tiles - Determination of wetting capability

Mörtel und Klebstoffe für Fliesen und Platten - Bestimmung der Benetzungsfähigkeit

Colles a carrelage - Détermination du pouvoir mouillant

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Ta slovenski standard je istoveten z: EN 1347:1998

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ICS:

83.180	Lepila	Adhesives
91.100.10	Cement. Mavec. Apno. Malta	Cement. Gypsum. Lime. Mortar

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en

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EUROPEAN STANDARD

EN 1347

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 1996

ICS 83.180; 91.100.10; 91.100.20

Descriptors: tiles, floor coverings, wall coverings, glue, tests, testing conditions, preparation, determination, wettability

English version

Adhesives for tiles - Determination of wetting capability

Colles à carrelage - Détermination du pouvoir mouillant

Mörtel und Klebstoffe für Fliesen und Platten - Bestimmung der Benetzungsfähigkeit

This European Standard was approved by CEN on 1996-11-25. 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.

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 Central Secretariat has the same status as the official versions.

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

CEN

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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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 67 "Ceramic tiles", the secretariat of which is held by UNI.

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 June 1997, and conflicting national standards shall be withdrawn at the latest by October 1997.

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

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1 Scope

This European Standard describes the test method to be used to determine the wetting capability of ceramic tile adhesives.

This standard is applicable to all ceramic tile adhesives for internal or external tile installations on walls and floors.

This European Standard does not contain performance requirements or recommendations for the design and installation of ceramic tiles.

NOTE: ceramic tile adhesives may also be used for other types of tiles (natural and agglomerated stones, etc.).

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 1066	Adhesives - Sampling
EN 1067	Adhesives - Examination and preparation of samples for testing
EN 196-1	Method of testing cement - Determination of strength
EN 1323	Adhesives for tiles - Concrete slab for test
prEN 12004	Adhesives for tiles - Definitions and specifications

3 Sampling

Take at least 2 kg sample of the adhesive in accordance with EN 1066 and EN 1067.

4 Test conditions

Standard conditions shall be $(23 \pm 2)^\circ \text{C}$ and $(50 \pm 5)\% \text{ R.H.}$ and a circulation of air in the testing area less than 0,2 m/s.

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5 Test materials

Condition all test materials (adhesive etc.) to be tested for at least 24 hours under standard conditions. The adhesive to be tested shall be within its shelf life, where this is specified.

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5.1 Glass plates

Clean, dry glass plates of dimensions $(100 \pm 1) \text{ mm} \times (100 \pm 1) \text{ mm} \times (6 \pm 0,5) \text{ mm}$, with ground edges.

5.2 Concrete slab

The concrete slab shall comply with EN 1323.

6 Mixing of adhesive

The amount of water and/or liquid admix required for preparing the adhesive shall be as stated by the manufacturer in parts by weight (i.e. liquid to dry powder). If a range of values is given, the average shall be used.

Prepare a minimum quantity of 2 kg of the adhesive in a mixer of the type described in clause 4.4 of EN 196-1, using the slow speed settings, (140 ± 5) rotation per minute and (62 ± 5) rotation per minute planetary movement.

Carry out the following procedure :

- pour the liquid into the pan
- scatter the dry powder over the liquid
- mix for 30 s
- take out the mixing paddle
- scrape down the paddle and pan within 1 min
- replace the paddle and mix for 1 min

If required, let the adhesive mature in accordance with the manufacturer's instructions, followed by a further mixing for 15 s.

In the case of ready to use dispersion adhesives or reaction resin adhesives follow the manufacturer's instructions.

7 Procedure

Apply a thin layer of the adhesive, mixed in accordance with clause 6, to the concrete slab with a straight edge trowel. Then apply a thicker layer and comb with a notched trowel having 6 mm x 6 mm notches at 12 mm centres for cementitious adhesives, and 4 mm x 4 mm notches at 8 mm centres for dispersion and reaction resin adhesives.

Hold the trowel at an angle of approximately 60° to the substrate at a right angle to one edge of the slab and drawn across the slab parallel to that edge (in a straight line)

Place the glass plates on the adhesive immediately and after 10, 20 and 30 min, and load each plate with (50 ± 0,5) N for 30 s. Care shall be taken to align the adhesive ribs parallel with the edge of the glass plate, ensuring that the outer rib is flush with one edge of the glass plate.

Determine the contact surface between the combed adhesive layer and the glass plate in terms of percentage of the total area of glass plate (e.g. by planimetry).

Each test requires three glass plates.

Report the results in percent.

8 Test report

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The test report shall provide the following information:

- a) the title, number and date of this European Standard;
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- b) the place, date and time of sampling;
- c) type of adhesive, commercial designation and manufacturer name;
- d) identification of the test sample;
- e) handling and storage of samples before testing;
- f) test conditions;
- g) date of testing;
- h) amount of water or liquid used for preparing the adhesive;

- i) wetting capability (%) for each time interval (individual and mean values);
- j) any other factor that could have influenced the result.

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