



SLOVENSKI STANDARD

SIST EN 1308:1998

01-april-1998

Lepila za ploščice - Ugotavljanje zdrsa

Adhesives for tiles - Determination of slip

Mörtel und Klebstoffe für Fliesen und Platten - Bestimmung des Abrutschens

Colles a carrelage - Détermination du glissement

Ta slovenski standard je istoveten z: EN 1308:1996

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ICS:

83.180	Lepila	Adhesives
91.100.23	Keramične ploščice	Ceramic tiles

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en

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EUROPEAN STANDARD

EN 1308

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 1996

ICS 83.180; 91.100.10; 91.100.20

Descriptors: tiles, ceramics, glue, tests, sliding, testing conditions

English version

Adhesives for tiles - Determination of slip

Colles à carrelage - Détermination du glissement

Mörtel und Klebstoffe für Fliesen und Platten
- Bestimmung des Abrutschens

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.

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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of an identical text or by endorsement, at the latest by June 1997, and conflicting national standards shall be withdrawn at the latest by June 1997.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 specifies the test method to be used to determine the adhesive's resistance to slip of a ceramic tile on a vertical wall.

This Standard applies to all ceramic tile adhesives for internal and external tiling on walls.

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

EN 176	Dust-pressed ceramic tiles with a low water absorption ($E^{23\%}$)-Group BI
EN 196-1	Methods of testing cement - Determination of strength
prEN 1066	Adhesives - Sampling
prEN 1067	Adhesives - Examination and preparation of samples for testing
EN 1322	Adhesives for tiles Definitions and terminology
EN 1323	Adhesives for tiles- Concrete slab for test

3 Sampling

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

4 Test conditions

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

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5 Test materials

5.1 Condition all test materials other than the adhesive 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.

5.2 Ceramic tiles

The tiles shall be checked prior to conditioning to ensure that they are new, clean and dry.

The tiles used for this method shall be of the following type:

type V2: Fully Vitrified tile in accordance with EN 176 with a water absorption $\leq 0,2\%$ by mass, unglazed, with plane adhering surface and with facial dimensions of (100 ± 1) mm x (100 ± 1) mm and weight of (200 ± 10) g.

5.3 Concrete slab

The concrete slab shall comply with EN 1323.

6 Apparatus

6.1 Steel straight edge

6.2 Clamps

6.3 Masking tape

A 25 mm wide masking tape.

6.4 Spacer

Two $(25 \pm 0,5)$ mm x $(25 \pm 0,5)$ mm x $(10 \pm 0,5)$ mm thick spacers made from stainless steel.

6.5 Weight

A mass capable of exerting a force of $(50 \pm 0,1)$ N with a cross sectional area of less than (100 ± 1) mm x (100 ± 1) mm

6.6 Vernier caliper

A Vernier caliper accurate to 0,01 mm.

7 Mixing of the 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 (in the case where 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 min and (62 ± 5) rotation per min 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

Let the adhesive mature as specified in the adhesive manufacturer's instructions, and then mix for a further 15 s.

Where ready-to-use dispersion adhesives or reaction resin adhesives are to be used, the manufacturer's instructions shall be followed.

8 Procedure

Secure the steel straight edge at the top of the concrete slab so that its bottom edge is horizontal when the slab is raised to its vertical position.

Position 25 mm wide masking tape immediately below the steel straight edge and apply a thin layer of the adhesive mixed in accordance with clause 7 to the concrete slab with a straight edge trowel.

Then apply a thicker layer of adhesive to the surface of the concrete slab so that it just overlaps the bottom edge of the masking tape. Comb the adhesive at right angles to the straight-edge 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 adhesives reaction resin adhesives.

Hold trowel held at an angle of 60° to the substrate and parallel to the straight edge.

Immediately remove the masking tape, position 25 mm spacers or the spacing bar as shown against the straight edge and after two minutes place a type V2 tile against the spacers, as shown in Figure 1 and load with a weight of $(50 \pm 0,1)$ N for (30 ± 5) s.

Remove the spacers and measure the gap between the straight edge and the tile with the Vernier caliper to within $\pm 0,1$ mm. Immediately and carefully lift the slab into a vertical position. After (20 ± 2) min re-measure the gap, as before, at its maximum point. The maximum slip of the tile under its own weight is the difference between the two readings.

Carry out the test for each of 3 tiles, for each adhesive. Report the results in millimeters and the mean value.

9 Test report

The test report shall provide the following information:

- a) the number and issue of this European standard;
- b) the place, date and time of sampling;
- c) type of adhesive, commercial designation and manufacturer;
- d) identification of test sample;
- e) handling and storage of samples before testing;
- f) test conditions;
- g) date of test;
- h) amount of water or liquid used for preparing the adhesive (for cementitious adhesives);
- i) slip in mm (individual and mean values);
- j) any other factor that could have influenced the result.

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