



SLOVENSKI STANDARD

oSIST prEN 15466-3:2006

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Primers for cold and hot applied joint sealants - Part 3: Test method for the determination of drying behaviour and solids content

Primers for cold and hot applied joint sealants - Part 3: Test method for the determination of drying behaviour and solids content

Voranstriche für kalt und heiß verarbeitbare Fugenmassen - Teil 3: Prüfverfahren zur Bestimmung des Trocknungsverhaltens und des Feststoffanteils

Primaires pour produits de scellement de joints appliqués a froid et a chaud - Partie 3 : Méthode d'essai pour la détermination du comportement au séchage et de la teneur en matieres solides

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ICS:

91.100.50	Veziva. Tesnilni materiali	Binders. Sealing materials
93.080.20	Materiali za gradnjo cest	Road construction materials

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en

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ICS

English Version

Primers for cold and hot applied joint sealants - Part 3: Test method for the determination of drying behaviour and solids content

Primaires pour produits de scellement de joints appliqués à froid et à chaud - Partie 3 : Méthode d'essai pour la détermination du comportement au séchage et de la teneur en matières solides

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This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 227.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CEN 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.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

This document (prEN 15466-3:2006) has been prepared by Technical Committee CEN/TC 227 “Road materials”, the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

This European Standard is one of a series of standards as listed below:

- | | |
|--------------|---|
| prEN 15466-1 | <i>Primers for cold and hot applied joint sealants — Part 1: Test method for the determination of homogeneity</i> |
| prEN 15466-2 | <i>Primers for cold and hot applied joint sealants — Part 2: Test method for the determination of resistance against alkali</i> |
| prEN 15466-3 | <i>Primers for cold and hot applied joint sealants — Part 3: Test method for the determination of drying behaviour and solids content</i> |

1 Scope

This European Standard describes a method for determining the drying behaviour and solids content of primers for cold and hot applied joint sealants.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

prEN 14188-4, *Joint fillers and sealants — Part 4: Specifications for primers for cold and hot applied sealants.*

EN ISO 291, *Plastics – Standard atmospheres for conditioning and/or testing.*

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in prEN 14188-4 and the following apply.

3.1

standard atmosphere 23/50

standard atmosphere in accordance with EN ISO 291:

- temperature (23 ± 2) °C;
- relative humidity (50 ± 5) %

3.2

drying behaviour

The drying behaviour describes the evaporating of the volatile substances. It is characterized by the loss of mass at standard atmosphere 23/50 after defined storing duration

prEN 15466-3:2006 (E)**3.3****solids content**

The solids content of a primer is defined as the residue of the primer after a defined storage at 110 °C

4 Principle

A sample of a primer shall be stored under a defined conditioning. After this storage the loss of volatile substances and the residue of the primer are to calculate.

5 Apparatus

5.1 Balance, capacity ≥ 100 g, uncertainty ≤ 1 mg.

5.2 3 single use syringes, capacity about 2 ml.

5.3 3 petri dishes, inner diameter (90 ± 5) mm, border height (10 ± 2) mm.

5.4 Desiccator.

5.5 Laboratory oven, complying with ISO 188 and capable of maintaining of test specimens at temperatures of more than $+120$ °C.

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6 Procedure**6.1 Conditioning**

Bring the primer to the homogeneous state with suitable proceedings like shaking or stirring. The primer shall be conditioned at standard atmosphere 23/50. oSIST prEN 15466-3:2006
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3 Petri dishes glass and 3 single use syringes shall be conditioned at standard atmosphere 23/50.

6.2 Drying behaviour

6.2.1 The empty Petri-dishes without content shall be weighted (m_1)

6.2.2 The single use syringes shall be filled with primer (m_2)

6.2.3 The content of the single use syringes shall be filled in the Petri dishes. Distribute the primer equal in the Petri dishes.

6.2.4 Weigh the empty one-trip syringe (m_3)

6.2.5 The Petri-dishes shall be stored at standard atmosphere 23/50, draught free. Weigh them after (60 ± 1) min and after (90 ± 1) min (m_4 and m_5)

6.3 Solids content

6.3.1 The Petri dishes shall be stored during $24 \text{ h} \pm 15 \text{ min}$ at (110 ± 5) °C in the laboratory oven.

6.3.2 The Petri dish shall be conditioned in the desiccator at standard atmosphere 23/50 during about 1 h.

6.3.3 Weigh the Petri-dish (m_6).

7 Calculation of results

7.1 Drying behaviour

The drying behaviour after 60 min shall be calculated with formula (1) and after 90 min with formula (2):

Drying behaviour after 60 min

$$VA_{60} = 100 \times \left(1 - \frac{m_4 - m_6}{m_1 + m_2 - m_3 - m_6} \right) \quad (1)$$

Drying behaviour after 90 min

$$VA_{90} = 100 \times \left(1 - \frac{m_5 - m_6}{m_1 + m_2 - m_3 - m_6} \right) \quad (2)$$

where

VA_{60} Drying behaviour after 60 min in % by mass;

VA_{90} Drying behaviour after 90 min in % by mass;

m_1 Mass of Petri dish;

m_2 Mass of single use syringe with primer;

m_3 Mass of single use syringe with primer residual;

m_4 Mass of Petri dish with primer after 60 minutes storage;

m_5 Mass of Petri dish with primer after 90 minutes storage;

m_6 Mass of Petri dish with primer after storage in oven.

7.2 Solids content

The solids content shall be calculated with formula (3):

$$FA = 100 \times \frac{m_6 - m_1}{m_2 - m_3} \quad (3)$$

where

FA Solids content, in % by mass;

m_1 Mass of Petri dish;

m_2 Mass of single use syringe with primer;

m_3 Mass of single use syringe with primer residual;

m_6 Mass of Petri dish with primer after storage in oven.