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Nadomešča:
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Bitumenske zmesi - Preskusne metode - 48. del: Zlepljenost plasti (vključno z dopolnilom A1)

Bituminous mixtures - Test methods - Part 48: Interlayer bonding

Asphalt - Prüfverfahren - Teil 48: Schichtenverbund

Mélanges bitumineux - Méthodes d'essai - Partie 48 : Collage entre couches

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English Version

Bituminous mixtures - Test methods - Part 48: Interlayer Bonding

Mélanges bitumineux - Méthodes d'essai - Partie 48 : Collage entre couches

Asphalt - Prüfverfahren - Teil 48: Schichtenverbund

This European Standard was approved by CEN on 16 August 2021 and includes Amendment 1 approved by CEN on 17 October 2025.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (EN 12697-48:2021+A1:2025) has been prepared by Technical Committee CEN/TC 227 “Road materials”, the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by June 2026, and conflicting national standards shall be withdrawn at the latest by June 2026.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document includes Amendment 1 approved by CEN on 17 October 2025.

This document supersedes EN 12697-48:2021.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 A1.

A list of all parts in the EN 12697 series can be found on the CEN website.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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1 Scope

This document specifies test methods for determining the bond strength between an asphalt layer and other newly constructed construction layers or existing substrates in road or airfield pavements. The tests can also be applied on laboratory prepared interlayers.

The normative tests described in this document are:

— Torque Bond Test (TBT), generally applicable to any layer thicknesses;

— Shear Bond Test (SBT), generally applicable to layer thicknesses > 15 mm;

— Tensile Adhesion Test (TAT), generally applicable to layer thicknesses ≤ 15 mm.

NOTE Further non-normative test methods are described in informative annexes:

— Annex A (informative) - Compressed Shear Bond Test (CSBT);

— Annex B (informative) - Alternative Shear Bond Test (ASBT);

— Annex C (informative) - Layer Adhesion Measuring Instrument (LAMI).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

EN 12697-27, *Bituminous mixtures — Test methods — Part 27: Sampling*

EN 12697-29, *Bituminous mixtures — Test methods — Part 29: Determination of the dimensions of a bituminous specimen*

EN 12697-33, *Bituminous mixtures — Test methods — Part 33: Specimen prepared by roller compactor*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at https://www.electropedia.org/
- ISO Online browsing platform: available at https://www.iso.org/obp

3.1
peak shear stress of the interface
$\tau_{SBT,max}$
maximum value of shear stress [MPa] determined as the maximum force F divided by the initial cross sectional area A, of a specimen when tested as described in this document

3.2
displacement at peak shear stress
$\delta_{SBT,max}$
displacement at the maximum value of shear stress of a specimen when tested as described in this document