

## **BSI Standards Publication**

## Bituminous mixtures — Test methods

Part 48: Interlayer Bonding



BS EN 12697-48:2021 BRITISH STANDARD

### National foreword

This British Standard is the UK implementation of EN 12697-48:2021.

The UK participation in its preparation was entrusted to Technical Committee B/510/1, Asphalt products.

A list of organizations represented on this committee can be obtained on request to its committee manager.

#### Contractual and legal considerations

This publication has been prepared in good faith, however no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability is or will be accepted by BSI in relation to the adequacy, accuracy, completeness or reasonableness of this publication. All and any such responsibility and liability is expressly disclaimed to the full extent permitted by the law.

This publication is provided as is, and is to be used at the recipient's own risk.

The recipient is advised to consider seeking professional guidance with respect to its use of this publication.

This publication is not intended to constitute a contract. Users are responsible for its correct application.

© The British Standards Institution 2021 Published by BSI Standards Limited 2021

ISBN 978 0 539 05106 3

ICS 93.080.20

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 December 2021.

Amendments/corrigenda issued since publication

Date Text affected

# EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 12697-48

November 2021

ICS 93.080.20

### **English Version**

# Bituminous mixtures - Test methods - Part 48: Interlayer Bonding

Mélanges bitumineux - Méthodes d'essai - Partie 48: Lien de couches Asphalt - Prüfverfahren - Teil 48: Schichtenverbund

This European Standard was approved by CEN on 16 August 2021.

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 CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists 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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

© 2021 CEN All rights of exploitation in any form and by any means reserved worldwide for CEN national Members.

Ref. No. EN 12697-48:2021 E

Contents  European foreword		
2	Normative references	4
3	Terms and definitions	4
4	Principle	5
4.1	General	
4.2	Torque Bond Test (TBT)	5
4.3	Shear Bond Test (SBT)	
4.4	Tensile Adhesion Test (TAT)	6
5	Specimens	6
6	Torque Bond Test (TBT)	7
6.1	Apparatus	
6.2	Materials	7
6.3	Site test method	7
6.4	Laboratory test method	
6.5	Calculation of Torque Bond Strength and expression of results	
6.6	Visual assessment of the mode of failure	
6.7	Test report	
6.8	Precision	10
7	Shear Bond Test (SBT)	11
7.1	ApparatusApparatus	11
7.2	Specimens	12
7.3	Test procedure	
7.4	Calculation and Expression of Results	
7.5	Test report	
7.6	Precision	
8	Tensile Adhesion Test (TAT)	
8.1	Apparatus	
8.2	Materials	
8.3	Specimen	
8.4	Test procedure	
8.5	Calculation and expression of results	
8.6	Test report	
8.7	Precision	
	ex A (informative) Compressed Shear Bond Test (CSBT)	
	ex B (informative) Alternative Shear Bond Test (ASBT)	
Anne	ex C (informative) Layer Adhesion Measuring Instrument (LAMI)	34
Bibli	iography	45

### **European foreword**

This document (EN 12697-48:2021) 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 May 2022, and conflicting national standards shall be withdrawn at the latest by May 2022.

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.

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.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.