

CONFIRMED
JUNE 1980

Method for

Testing the mixing performance of concrete mixers

UDC 625.7.08:693.542.52.001.4

NO COPYING WITHOUT BSI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW

BSI
Documents

AVA

Document Sharing Hub

Co-operating organizations

The Road Engineering Industry Standards Committee, under whose supervision this British Standard was prepared, consists of representatives from the following Government departments and scientific and industrial organizations:

Asphalt and Coated Macadam Association	Greater London Council*
Association of Consulting Engineers	Institute of Petroleum
British Quarrying and Slag Federation	Institute of Quarrying
British Tar Industry Association	Institution of Civil Engineers*
Cement and Concrete Association*	Institution of Highway Engineers*
Concrete Society (Design and Development Divisional Committee)*	Institution of Municipal Engineers*
Contractors' Plant Association*	Institution of Structural Engineers
County Surveyors' Society*	Ministry of Defence, Army Department*
Department of the Environment	Refined Bitumen Association Limited
Department of the Environment, Transport and Road Research Laboratory	Road Emulsion Association Limited
Federation of Civil Engineering Contractors*	Road Surface Dressing Association
Federation of Manufacturers of Construction Equipment and Cranes*	Sand and Gravel Association Limited
	Society of Chemical Industry
	Individual experts

The Government departments and scientific and industrial organizations marked with an asterisk in the above list, together with the following, were directly represented on the committee entrusted with the preparation of the British Standard:

British Ready Mixed Concrete Association	Department of the Environment (Building Research Establishment)
Department of Employment (Factory Inspectorate)	Individual experts

This British Standard, having been approved by the Road Engineering Industry Standards Committee, was published under the authority of the Executive Board on 25 January 1974

© BSI 09-1999

First published December 1965
First revision January 1974

The following BSI references relate to the work on this standard:
Committee reference RDE/23
Draft for comment 69/31690

ISBN 0 580 08364 0

Amendments issued since publication

Amd. No.	Date of issue	Comments

Contents

	Page
Co-operating organizations	Inside front cover
Foreword	ii
1 Scope	1
2 Materials and mixes	1
3 Production of test batches	1
4 Sampling	1
5 Testing of samples	2
6 Calculations	2
7 Assessment of sampling accuracy	3
8 Assessment of mixing performance	3
9 Reporting	3
Appendix A Materials and concrete mixes	4
Appendix B Recommendations regarding the choice of sampling method	5
Appendix C Worked example of treatment of results for cement content	6
Table 1 — Concrete mixes for mixing performance tests	4
Table 2 — Mixes to be used to check different mixers	5
Publications referred to	Inside back cover

Foreword

This British Standard, first published in 1965, has been prepared under the authority of the Road Engineering Industry Standards Committee using metric units as part of the national policy to change over to the metric system. It provides a means of assessing the mixing performance of concrete mixers.

The basis of the standard is the determination of the uniformity of the concrete, particularly as regards the even distribution of the constituents throughout the batch.

The method of testing specified is principally for use by the manufacturer in order to provide evidence that the mixer meets the performance requirements specified in the appropriate standard. It is not considered suitable as a routine site test.

The committee responsible for this standard has been conscious that, if the test is to be used as widely as possible, the cost of the apparatus and the quantity of concrete required must both be kept at a minimum. The wet analysis method, described in BS 1881 "*Methods of testing concrete*", has been selected as the analysis method to be used for checking the composition of the concrete. In due course it may be possible to employ newer techniques when these have been shown to give reliable results.

Provisions regarding continuous type mixers are included for the first time.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 6, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.