

BS 5838:2022



BSI Standards Publication

Dry prepacked concrete — Specification

bsi.

AVA **Documents**
Document Sharing Hub

Publishing and copyright information

The BSI copyright notice displayed in this document indicates when the document was last issued.

© The British Standards Institution

Published by BSI Standards Limited

ISBN 978 0 539 19513 2

ICS 91.100.10

The following BSI references relate to the work on this document:

Committee reference B/517/1

Draft for comment 22/30444743 DC

Amendments/corrigenda issued since publication

Date	Text affected
------	---------------

Contents

	Page
Foreword	ii
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Constituent materials	2
4.1 Cements	2
4.2 Aggregates	2
4.3 Admixtures	2
5 Preparation of aggregates	2
6 Types and properties of concrete	2
6.1 Maximum aggregate size	2
6.2 Compressive strength	2
<i>Table 1 — Compressive strength classes and minimum strength</i>	3
6.3 Volume yield	3
6.4 Chloride	3
7 Packaging and marking	3
7.1 Packaging requirements	3
7.2 Identification and marking	3
8 Sampling, preparation and testing	4
8.1 General	4
8.2 Preparation of sample	4
8.3 Mixing of sample	4
8.4 Consistence and water content	4
8.5 Volume yield	4
8.6 Making and curing of test specimens	4
8.7 Strength testing	5
Bibliography	6

Summary of pages

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

Foreword

Publishing information

This British Standard is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 30 September 2022. It was prepared by Subcommittee B/517/1, *Concrete production and testing* under the authority of Technical Committee B/517, *Concrete*. A list of organizations represented on this committee can be obtained on request to the committee manager.

Supersession

This British Standard supersedes [BS 5838-1:1980](#), which is withdrawn.

Information about this document

This is a full revision of the standard, and introduces the following principal changes:

- a) references to current British and European Standards have been updated;
- b) clarification between:
 - 1) prepacked concrete with cement or combinations of cement and additions covered by [BS 8500-2](#); and
 - 2) non-standard concretes that contain a specified cement, or any cement other than those covered by [BS 8500-2](#); and
- c) recommendations for production control have been introduced.

Product certification. Users of this British Standard are advised to consider the desirability of third-party certification of product conformity to this British Standard. Users seeking assistance in identifying appropriate conformity assessment bodies or schemes may ask BSI to forward their enquiries to the relevant association.

This publication can be withdrawn, revised, partially superseded or superseded. Information regarding the status of this publication can be found in the Standards Catalogue on the BSI website at bsigroup.com/standards, or by contacting the Customer Services team.

Where websites and webpages have been cited, they are provided for ease of reference and are correct at the time of publication. The location of a webpage or website, or its contents, cannot be guaranteed.

Hazard warnings

WARNING. Where skin is in contact with fresh concrete, skin irritations are likely to occur owing to the alkaline nature of cement. The abrasive effects of sand and aggregate in the concrete can aggravate the condition. Potential effects range from dry skin, irritant contact dermatitis, to – in cases of prolonged exposure – severe burns. Take precautions to avoid dry cement entering the eyes, mouth and nose when mixing mortar or concrete by wearing suitable protective clothing. Take care to prevent fresh concrete from entering boots and use working methods that do not require personnel to kneel in fresh concrete.

Unlike heat burns, cement burns might not be felt until some time after contact with fresh concrete, so there might be no warning of damage occurring. If cement or concrete enters the eye, immediately wash it out thoroughly with clean water and seek medical treatment without delay. Wash wet concrete off the skin immediately. Barrier creams can be used to supplement protective clothing but are not an alternative means of protection.

Presentational conventions

The provisions of this standard are presented in roman (i.e. upright) type. Its requirements are expressed in sentences in which the principal auxiliary verb is “shall”.

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

Where words have alternative spellings, the preferred spelling of the Shorter Oxford English Dictionary is used (e.g. “organization” rather than “organisation”).

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.

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