DRAFT TANZANIA STANDARD

Testing of concrete — Part 14: Setting time of concrete mixtures by resistance to penetration

Draft Standard (DTZS)

TANZANIA BUREAU OF STANDARDS

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1st Edition

Tanzania Bureau of Standards (TBS) is the statutory national standards body for Tanzania established under the Standards Act No. 3 of 1975, which was repealed and replaced by the Standards Act No. 2 of 2009.

The Building and Construction Divisional Standards Committee, under whose supervision this Tanzania Standards was prepared, consists of representatives from the following organizations:

*College of Engineering and Technology, University of Dar er Salaam

Tanzania Commission for Science and Technology (COSTECH)

Ministry of Works and Transportation (MoWT)

National Housing Corporation (NHC)

Contractors Registration Board (CRB)

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*National Estates and Designing Consultancy Company Ltd (NEDCO)

Architects and Quantity Surveyors Registration Board (AQRB)

Institution of Engineers Tanzania (IET)

*National Construction Council (NCC)

Engineers Registration Board (ERB)

Tanzania Building Agency (TBA)

The organizations marked with an asterisk (*) in the above list, together with the following were directly represented on the Technical Committee entrusted with the preparation of this draft Tanzania Standard:

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0.National foreword

This Tanzania Standard is identical to **ISO 1920-14:2019-Testing of concrete — Part 14: Setting time of concrete mixtures by resistance to penetration** published by the International Organization for Standardization (ISO).

Terminology and conventions

Some terminologies and certain conventions in the ISO standards are not identical with those used in Tanzania Standards and attention is drawn to the following:

The comma (,) has been used as a decimal marker (.) for metric dimensions. In Tanzania Standards, it is current practice to use a full point on the base line as the decimal marker.

Wherever the words “International Standard” appear in this Tanzania Standard, they should be interpreted as “Tanzania Standard”.

Scope

This document covers the method for determining the setting time of concrete with slump greater than zero, by testing mortar sieved from the concrete mixture. The initial setting time and the final setting time are the time intervals required for the mortar sieved from the concrete mixture to reach the specified values of penetration resistance after the initial contact of cement and water.

The method can be used for determining the effect of variables such as temperature, type and content of cement, concrete mix proportions and admixtures, on the time of setting and hardening characteristics of concrete.

This test method is applicable under controlled laboratory conditions, as well as under field conditions

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