

**MAURITIAN  
STANDARD**

**MS EN  
12004-1:2017**

First edition  
2019-11-30

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## **Adhesives for ceramic tiles**

### **Part 1: Requirements, assessment and verification of constancy of performance, classification and marking**

ICS: 83.180; 91.100.10

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**Mauritius Standards Bureau  
Moka**

This national standard is the identical implementation of EN 12004-1:2017 and is adopted with the permission of CEN, Avenue Marnix 17, B-1000 Brussels, Belgium.

## **National foreword**

This Mauritian Standard is identical with the European Standard **EN 12004-1:2017**, *Adhesives for ceramic tiles*, Part 1: Requirements, assessment and verification of constancy of performance, classification and marking has been adopted as a national standard upon the recommendation of the **Building and Construction Standards Committee** through its **Subcommittee on Tiles Adhesives**. It was approved by the **Standards Council** on **03 October 2019** and was notified in the **Government Gazette** on **30 November 2019**

For the purpose of this standard the following changes should be made:

- (i) the words 'European Standard' should be replaced by 'Mauritian Standard'
- (ii) the 'decimal comma' should be replaced by 'decimal point'.

**\* General Notice No. 1952 of 2019**



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PREVIEW

## European foreword

This document (EN 12004-1:2017) has been prepared by Technical Committee CEN/TC 67 “Ceramic tiles”, the secretariat of which is held by UNI.

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of an identical text or by endorsement, at the latest by August 2017, and conflicting national standards shall be withdrawn at the latest by November 2018.

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 supersedes EN 12004:2007+A1:2012.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s) for construction works of Regulation No. 305/2011.

For relationship with this Regulation, see informative Annex ZA, which is an integral part of this document.

The significant technical changes between this European Standard and the previous edition are listed herewith:

- Clause 3.6.1 replacement of the term “Fundamental” with “Basic”;
- Clause 4, Tables 1, 2 and 3;
- New Clause 5;
- New Clause 6 in accordance with CEN guidance documents;
- New Annex ZA (informative) in accordance with the CPR (Regulation (EU) No. 305/2011) and the Commission Delegated Regulations (EU) No. 157/2014 relative to DoP made available on websites, (EU) No. 574/2014 relative to the Model of DoP and (EU) No. 568/2014 relative to the assessment and verification of constancy of performance.

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

## Introduction

It is essential that the characteristics of the construction products defined in this standard consider that the normal stresses due to the works for which they are intended, assembled or installed, can be properly accommodated. Some special characteristics will take into account the type of substrate and that the adhesives should resist the degrading actions of climate, etc.

Many properties of adhesives for tiling are mainly determined by the type of binders used. Different types of tile adhesives are defined according to the chemical nature of their binders.

The different types of adhesives for ceramic tiles have specific characteristics in terms of their application properties and final performance.

The relationship between characteristics and the working conditions (dry or humid conditions, hot climate, fast setting, etc.) is not given in this standard.

The manufacturer should give information about the use of the product and the correct conditions of use.

The specifier should evaluate the state of the job site (mechanical and thermal influences) and choose the appropriate product considering all the possible risks.

PREVIEW

## 1 Scope

This European Standard is applicable to the following three types of adhesives for ceramic tiles, i.e. cementitious ones for internal and external tile installations, dispersion and reaction resin ones for internal tile installations, on walls and floors.

This European Standard gives the terminology concerning the products, working methods, application properties, etc, for ceramic tile adhesives.

This European Standard specifies the performance requirements for the adhesives for ceramic tiles.

It also specifies the appurtenant test methods, assessment and verification of constancy of performance (AVCP), as well as classification, designation and marking of adhesives for ceramic tiles.

This European Standard does not provide criteria or recommendations for the design and installation of ceramic tiles.

Ceramic tile adhesives may also be used for other types of tiles (natural and agglomerated stones, etc.), if they do not adversely affect these materials.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 12004-2:2017, *Adhesives for ceramic tiles — Part 2: Test methods*

EN 12808-1, *Grouts for tiles — Part 1: Determination of chemical resistance of reaction resin mortars*

EN 13238, *Reaction to fire tests for building products — Conditioning procedures and general rules for selection of substrates*

EN 13501-1, *Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests*

EN 14411, *Ceramic tiles — Definition, classification, characteristics, assessment and verification of constancy of performance and marking*

## 3 Terms and definitions

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

### 3.1 General

#### 3.1.1

##### **thin bed method**

method used for installing tiles onto a plane surface with an adhesive

Note 1 to entry: The adhesive is usually applied with a trowel to obtain a layer and then combed with a notched trowel to achieve the right thickness and planarity.

#### 3.1.2

##### **fixing surface**

plane rigid surface upon which the tile is fixed