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Ceramic tiles — Grouts and adhesives —

Part 6: Requirements, test methods, evaluation of conformity, classification and designation for waterproof membranes used with the installation of ceramic tiles

Carreaux céramiques – Mortiers de joints et colles —

Partie 6: Exigences, méthodes d'essai, évaluation de la conformité, classification et désignation des membranes d'étanchéité utilisées pour l'installation des carreaux céramiques

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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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This document was prepared by Technical Committee ISO/TC 189, *Ceramic tile*.

A list of all parts in the ISO 13007 series can be found on the ISO website.

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Ceramic tiles — Grouts and adhesives —

Part 6:
Requirements, test methods, evaluation of conformity, classification and designation for waterproof membranes used with the installation of ceramic tiles

1 Scope

This document applies to all bonded sheet waterproofing membranes that are used beneath ceramic tiling for internal and external tile installations on walls and floors.

This document provides the terminology concerning the products and specifies the test methods and the values of performance requirements for bonded sheet waterproofing products associated with tile adhesives.

Furthermore, this document specifies the evaluation of conformity and the classification and designation of all bonded sheet waterproofing products beneath ceramic tiling.

NOTE 1 Bonded sheet waterproofing products can also be used beneath other types of tiles (natural and agglomerated stones etc.), where they do not adversely affect these materials.

NOTE 2 This document does not address crack isolation, decoupling, sound control, thermal properties, or any aspect of membranes apart from waterproofing.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 13006, *Ceramic tiles — Definitions, classification, characteristics and marking*

ISO 13007-1, *Ceramic tiles — Grouts and adhesives — Part 1: Terms, definitions and specifications for adhesives*

ISO 13007-2, *Ceramic tiles — Grouts and adhesives — Part 2: Test methods for adhesives*

ISO 15605, *Adhesives — Sampling*

EN 197-1, *Cement — Part 1: Composition, specifications and conformity criteria for common cements*

EN 480-1:2014, *Admixture for concrete, mortar and grout — Test methods — Part 1: Reference concrete and mortar for testing*

EN 1008, *Mixing water for concrete — Specification for sampling, testing and assessing the suitability of water, including water recovered from processes in the concrete industry, as mixing water for concrete*

EN 1067, *Adhesives — Examination and preparation of samples for testing*

EN 1931, *Flexible sheets for waterproofing — Bitumen, plastic and rubber sheets for roof waterproofing — Determination of water vapour transmission properties*

EN 12390-2, *Testing hardened concrete — Part 2: Making and curing specimens for strength tests*

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EN 12620, *Aggregates for concrete*

ASTM E96, *Standard Test Methods for Water Vapor Transmission of Materials*

3 Terms and definitions

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

3.1
bonded sheet waterproofing membrane
BM
single- or multi component waterproofing membrane applied as a preformed sheet in a uniform layer or layers, beneath ceramic tiling in such a manner as to be bonded to the substrate as well as the tile according to manufacturer's instructions

Note 1 to entry: The final waterproofing membrane may include a separately applied seam sealer.

Note 2 to entry: The bonded sheet waterproofing membrane can be flat or structured with a geometric configuration.

3.2
primer
liquid coating applied to the surface, prior to the application of a bonded sheet waterproofing product, to improve adhesion and durability of the bond between the substrate and the membrane

4 Requirements

The bonded sheet waterproofing membrane products shall comply with the characteristics specified in Table 1.

Table 2 gives the additional characteristics that might be required for special service conditions.

The tile adhesive used for evaluation should be the same for all testing performed in a series, a C2S1 adhesive being recommended. The amount of water and/or liquid admixture required for preparing the adhesives used to affix to the sheet membrane shall be the same for all tests.

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