International Standard

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Textile floor coverings — Water impermeability test

Revêtements de sol textiles — Essai d'imperméabilité à l'eau

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Foreword

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This document was prepared by Technical Committee ISO/TC 219, *Floor coverings.*

This second edition cancels and replaces the first edition (ISO 20251:2016), which has been technically revised.

The main changes are as follows:

— inclusion of the pouring height of the coloured solution onto the test specimen;

— revision of process to make the coloured liquid.

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Textile floor coverings — Water impermeability test

1 Scope

This document specifies a laboratory test method for determining the water impermeability of textile floor coverings.

This document does not apply to the characterization of a wall-to-wall installation of textile floor covering tiles.

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 139, *Textiles — Standard atmospheres for conditioning and testing*

ISO 1957, *Machine-made textile floor coverings — Selection and cutting of specimens for physical tests*

ISO 2424, *Textile floor coverings — Vocabulary*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 2424 apply.

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

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

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

4 Principle

A specified amount of coloured liquid is poured from a height of 1 m onto a concentrated area of the use surface of the floor covering. After 24 hours, the floor covering is then evaluated for liquid penetration through (or in the secondary backing of) the product.

5 Materials

5.1 Coloured liquid solution

Methylene blue solution (1 g/l) (CAS number 61-73-4) or Acid Violet 7 solution (1 g/l) (CAS number 4321-69-1).

5.2 Open-ended cylinder

Open-ended cylinder (funnel with spout): 110 mm in diameter, 1 000 mm high, non-water permeable, and of a lightweight material, e.g. PVC.

5.3 White tissue paper

Any white tissue paper can be used for this purpose.

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