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Bevarande av kulturarv – Provningsmetoder – Bestämning av kulör på en yta

Conservation of cultural property – Test methods – Colour measurement of surfaces

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EUROPEAN STANDARD

EN 15886

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2010

ICS 97.195

English Version

Conservation of cultural property - Test methods - Colour measurement of surfaces

Conservation des biens culturels - Méthodes d'essai -
Mesurage chromatique des surfaces

Erhaltung des kulturellen Erbes - Prüfmethode -
Farbmessung von matten Oberflächen

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Foreword

This document (EN 15886:2010) has been prepared by Technical Committee CEN/TC 346 “Conservation of cultural property”, 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of an identical text or by endorsement, at the latest by March 2011, and conflicting national standards shall be withdrawn at the latest by March 2011.

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1 Scope

This European Standard describes a test method to measure the surface colour of porous inorganic materials, and their possible chromatic changes. No reference to the appearance of glossy surfaces is described. The method may be applied to porous inorganic materials either untreated or subjected to any treatment or ageing.

The method is suitable for the measurement of colour coordinates of:

- representative surfaces of specimens, see 3.11;
- representative surfaces of objects, indoors or outdoors.

2 Normative references

The following referenced documents are required for the application of this standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced documents (including any amendments) apply.

prEN 15898:2010, *Conservation of cultural property — Main general terms and definitions concerning conservation of cultural property*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in prEN 15898:2010 and the following apply.

3.1

porous inorganic materials

natural stones as well as artificial materials such as mortar, plaster, brick and others

3.2

chroma

attribute of colour used to indicate the degree of departure of the colour from a grey of the same lightness

NOTE See ASTM E 284.

3.3

lightness

attribute by which a perceived colour is judged to be equivalent to one of a series of greys ranging from black to white

NOTE See ASTM E 284.

3.4

hue

attribute of a visual perception according to which an area appears to be similar to one of the colours, red, yellow, green, and blue, or to a combination of adjacent pairs of these colours considered in a closed ring

NOTE See the International Commission on Illumination CIE (1931)

3.5

reflectance factor

R%

percentage ratio of the reflected radiant power compared to incident radiant power