Conservation of Cultural Heritage - Finishes of built heritage - Investigation and documentation



## EESTI STANDARDI EESSÕNA

#### NATIONAL FOREWORD

See Eesti standard EVS-EN 17543:2021 sisaldab Euroopa standardi EN 17543:2021 ingliskeelset teksti.

This Estonian standard EVS-EN 17543:2021 consists of the English text of the European standard EN 17543:2021.

Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.

This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.

Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 11.08.2021.

Date of Availability of the European standard is 11.08.2021.

Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.

The standard is available from the Estonian Centre for Standardisation and Accreditation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile <u>standardiosakond@evs.ee</u>.

ICS 97.195

#### Standardite reprodutseerimise ja levitamise õigus kuulub Eesti Standardimis- ja Akrediteerimiskeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonsesse süsteemi või edastamine ükskõik millises vormis või millisel teel ilma Eesti Standardimis- ja Akrediteerimiskeskuse kirjaliku loata on keelatud.

Kui Teil on küsimusi standardite autoriõiguse kaitse kohta, võtke palun ühendust Eesti Standardimis- ja Akrediteerimiskeskusega: Koduleht www.evs.ee; telefon 605 5050; e-post info@evs.ee

#### The right to reproduce and distribute standards belongs to the Estonian Centre for Standardisation and Accreditation

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, without a written permission from the Estonian Centre for Standardisation and Accreditation.

If you have any questions about standards copyright protection, please contact the Estonian Centre for Standardisation and Accreditation: Homepage www.evs.ee; phone +372 605 5050; e-mail info@evs.ee

# EUROPEAN STANDARD NORME EUROPÉENNE

**EUROPÄISCHE NORM** 

EN 17543

August 2021

ICS 97.195

#### **English Version**

# Conservation of Cultural Heritage - Finishes of built heritage - Investigation and documentation

Conservation du patrimoine culturel - Finitions du patrimoine bâti - Investigation et documentation

Erhaltung des kulturellen Erbes -Oberflächenausführungen des gebauten Erbes -Untersuchung und Dokumentation

This European Standard was approved by CEN on 28 June 2021.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

COIIC	ents	Page
Europ	ean foreword	3
introduction		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
1	Overview of the investigation process	8
5	Preparation	9
5.1 5.2	Project brief Commissioning	
5	Execution	
5.1	General	
5.2	Archival investigation	
5.3	Period chart	
5.4	On-site investigation	
5.4.1	Initial survey	
5.4.2	Exposures of finishes	
5.4.3	Sampling	12
5.5	Laboratory investigation	12
5.5.1	Microscopic examination of cross-sections	12
5.5.2	Advanced material analysis	13
5.6	Colour evaluation	
5.7	Synthesis of results and conclusion	13
_	Reporting	
7		
7.1	General	
7.2	Contents of the report	
7.3	Further agreements	
	A (informative) Example of period chart	
Annex B (informative) Interpretation of cross-sections		17
Diblia	graphy	10

# **European foreword**

This document (EN 17543:2021) has been prepared by Technical Committee CEN/TC 346 "Conservation of Cultural Heritage", 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 February 2022, and conflicting national standards shall be withdrawn at the latest by February 2022.

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.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

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

# Introduction

Throughout its existence, built heritage is subject to continuous change and alteration. The most frequent changes have been the repeated refurbishment and redecoration of interiors and exterior architectural surfaces, carried out in response to a wide range of factors: developments in decorative fashions, changes in the functions of rooms, changes in the wealth of successive occupants and owners, the need to revive an old and worn painted decoration or simply maintenance. The investigation on built heritage finishes provides a systematic method of understanding these changes. It offers insights into the appearance of original and later schemes and may provide dates for the application of specific finishes.

The purpose of the investigation can be to locate, identify, interpret and, if possible, date current and previous finishes. Such investigations help to deepen our general knowledge of the significance of the area under investigation, its history and alterations, and also to assess its condition and to plan for future conservation and presentation, taking account of aesthetic considerations. These investigations should be looked upon as an integral part of the documentation and investigation process on built heritage.

The aim of each investigation may vary considerably in scope and complexity. While this document offers a framework, it should be recognized that every finish offers a different challenge to an investigation and interpretation. The presence of wall paintings will be recorded, although the investigation and documentation of wall paintings themselves is beyond the scope of this standard.

While the focus of this document is the investigation of finishes in and on buildings, the techniques described are commonly employed on other heritage objects.

The expertise required to carry out such investigations should be in line with the objectives and challenges. Multidisciplinary professionals involved in this field are drawn from a wide range of backgrounds, including conservation, science, art history, architecture, building archaeology, and painting and decorating crafts.

In some countries, the investigation and documentation of finishes, is known as Architectural Paint Research (APR).

It is the aim of this document to define common principles and best practice for the investigation on built heritage finishes.

# 1 Scope

This document defines best practice when investigating finishes on built heritage, with the aim of establishing existing schemes by collecting data and processing findings. It applies to finishes that can be decorative or protective, on buildings and their interiors, as well as other built heritage, but explicitly excludes the category of wall paintings.

This document applies to the planning and execution of such investigations with documentation throughout. It can be used as a process reference for stakeholders involved in the investigation of built heritage.

#### 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.

EN 16085:2012, Conservation of Cultural property - Methodology for sampling from materials of cultural property - General rules

EN 16853:2017, Conservation of cultural heritage - Conservation process - Decision making, planning and implementation

EN 17429:2020, Conservation of cultural heritage - Procurement of conservation services and works

## 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 <a href="https://www.electropedia.org/">https://www.electropedia.org/</a>

#### 3.1

#### architectural element

designed part of a building

Note 1 entry: "architectural element" has a wider meaning, but in this standard refers to a elements of a building, such as skirting, panel, door, column, pillar, etc.

#### 3.2

#### built heritage

immovable and movable standing structures which have an architectural, cultural or historic value

EXAMPLES: buildings, railings, street furniture, vehicles, industrial artefacts, ships, boats, furniture