Testing sprayed concrete - Part 6: Thickness of concrete on a substrate

Testing sprayed concrete - Part 6: Thickness of concrete on a substrate

EESTI STANDARDI EESSÕNA **NATIONAL FOREWORD**

Käesolev Eesti standard EVS-EN 14488-6:2006 sisaldab Euroopa standardi EN 14488-6:2006 ingliskeelset teksti. Käesolev dokument on jõustatud 31.07.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN 14488-6:2006 consists of the English text of the European standard EN 14488-6:2006. This document is endorsed on 31.07.2006 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.

Käsitlusala: This standard describes methods for the determination of the thickness of sprayed concrete on a substrate after spraying. The results can also give an indication of the parallelism of the concrete to the substrate. The substrate may be rock, soil, concrete or other surface.	**Scope:** This standard describes methods for the determination of the thickness of sprayed concrete on a substrate after spraying. The results can also give an indication of the parallelism of the concrete to the substrate. The substrate may be rock, soil, concrete or other surface.

ICS 91.100.30

Võtmesõnad:

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 14488-6

June 2006

ICS 91.100.30

English Version

Testing sprayed concrete - Part 6: Thickness of concrete on a substrate

Essais pour béton projeté - Partie 6 : Epaisseur du béton sur un support

Prüfung von Spritzbeton - Teil 6: Schichtdicke von Beton auf einem Untergrund

This European Standard was approved by CEN on 3 May 2006.

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

Ref. No. EN 14488-6:2006: E

Contents

Page

Foreword

This document (EN 14488-6:2006) has been prepared by Technical Committee CEN/TC 104 “Concrete and related products”, the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by December 2006, and conflicting national standards shall be withdrawn at the latest by December 2007.

This Draft European Standard part of a series concerned with testing sprayed concrete.

This series EN 14488 ‘Testing sprayed concrete’ includes the following parts:

— Part 1: Sampling fresh and hardened concrete

— Part 2: Compressive strength of young sprayed concrete

— Part 3: Flexural strengths (first peak, ultimate and residual) of fibre reinforced beam specimens

— Part 4: Bond strength of cores by direct tension

— Part 5: Determination of energy absorption capacity of fibre reinforced slab specimens

— Part 6: Thickness of concrete on a substrate

— Part 7: Fibre content of fibre reinforced concrete

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

1 Scope

This standard describes methods for the determination of the thickness of sprayed concrete on a substrate after spraying. The results can also give an indication of the parallelism of the concrete to the substrate. The substrate may be rock, soil, concrete or other surface.

2 Normative references

The following referenced documents are indispensable for the application 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

Not applicable.

3 Principle

In fresh concrete, a depth gauge is pushed into sprayed concrete and the thickness is measured.

In hardened concrete, holes or cores are drilled to the substrate. The depth of the holes or extracted cores is then measured.

4 Equipment

4.1 **Template sheet**, if used, as shown in Figure 1.

The template sheet may be made of suitable material. Drill five holes to be spaced (600 ± 50) mm in two lines of three at right angles as shown in figure 1. The template shall be flat when in use.

Dimensions in mm

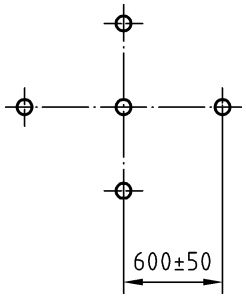

Figure 1 — Template sheet dimensions

4.2 **Hammer drill** of sufficient length to penetrate fully through the expected thickness of sprayed concrete.

4.3 **Core drill** of sufficient length and diameter.

4.4 **Lamp**, or torch.

4.5 **Depth gauge**, such as a Talmeter or similar.

4.6 Metal, plastic or wood **rule**.