

**IRISH STANDARD** 

I.S. EN 447:2007

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# GROUT FOR PRESTRESSING TENDONS - BASIC REQUIREMENTS

#### Sales

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# EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

**EN 447** 

October 2007

ICS 91.100.30

Supersedes EN 447:1996

### **English Version**

# Grout for prestressing tendons - Basic requirements

Coulis pour câble de précontrainte - Prescriptions pour les coulis courants

Einpressmörtel für Spannglieder - Allgemeine Anforderungen

This European Standard was approved by CEN on 21 June 2007.

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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 Management Centre has the same status as the official versions.

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

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# EN 447:2007 (E)

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EN 447:2007 (E)

# **Foreword**

This document (EN 447:2007) 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of an identical text or by endorsement, at the latest by April 2008, and conflicting national standards shall be withdrawn at the latest by April 2008.

This document supersedes EN 447:1996.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, 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.

#### EN 447:2007 (E)

# Introduction

In post-tensioned prestressed concrete construction, the grouting of tendons is an important operation. The intention of this European Standard is to provide basic requirements for the approval of cement grouts, compliance with which will satisfy the requirements in prEN 13670.

The main function of grouting is to:

- Provide protection to the prestressing steel against corrosion;
- Provide a bond between the prestressing steel and the ducts where required for the design of the structure;
- Allow transfer of compressive stresses in the structure in a direction transverse to internal tendons;
- Fill all voids where water may accumulate and cause frost damage.

The testing regimes anticipated by this European Standard include three levels:

- (1) Initial type and audit testing in accordance with this European standard;
- (2) Suitability testing for confirmation of the selected grout for a specific project in accordance with EN 446;
- (3) Inspection during grouting works on a specific project in accordance with EN 446.

The test methods for each of the regimes are given in EN 445.



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