

Steel tubes for onshore and offshore water pipelines — Internal liquid applied epoxy linings for corrosion protection

The European Standard EN 10339:2007 has the status of a British Standard

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National foreword

This British Standard was published by BSI. It is the UK implementation of EN 10339:2007.

The UK participation in its preparation was entrusted to Technical Committee ISE/8, Steel pipes.

A list of organizations represented on ISE/8 can be obtained on request to its secretary.

Compliance with this Standard does not automatically imply a presumption that the product is suitable for the transport of water intended for human consumption, within the meaning of European Directive 89/106/EEC (also known as the Construction Products Directive). Until the proposed European Acceptance Scheme for construction products in contact with water intended for human consumption (or an alternative programme put forward by the European Commission) is in place, and this Standard revised to reflect this, products conforming to this Standard may be used in applications involving the transport of water for human consumption if they also conform to the relevant national, regional or local regulatory provisions applicable in the place of use.

In the UK, products and processes need to be approved by the Drinking Water Inspectorate (DWI). This involves obtaining approvals under regulation 31 for both the coating and the coating applicator. For more details please refer to <http://www.dwi.gov.uk/cpp/index.shtm>.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

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English Version

Steel tubes for onshore and offshore water pipelines - Internal liquid applied epoxy linings for corrosion protection

Tubes pour canalisations d'eau enterrées et immergées -
Revêtements internes en résine époxyde appliquée à l'état
liquide pour la protection contre la corrosion

Stahlrohre für erd- und wasserverlegte
Wasserleitungssysteme - Innenauskleidung mit
Epoxidharzen als Korrosionsschutz

This European Standard was approved by CEN on 20 December 2006.

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 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 Management Centre has the same status as the official versions.

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Foreword

This document (EN 10339:2007) has been prepared by Technical Committee ECISS/TC 29 “Steel tubes and fittings for steel tubes”, 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 August 2007, and conflicting national standards shall be withdrawn at the latest by August 2007.

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.

1 Scope

This European Standard specifies the requirements for the application of liquid applied epoxy internal linings, for the corrosion protection of steel tubes.

This type of lining is generally used in the transport and distribution, under pressure or by gravity, of water intended for human consumption and industrial use, sea water, waste water and also in fire water. The temperature of the water transported generally does not exceed 50 °C.

The choice of the lining and its limits of use depend on the type of product used, the pipe laying conditions, the temperature and the chemical composition of the fluid. The choice of the product for the medium to be transported and its qualification are not part of this European Standard.

The lining consists normally of one layer of liquid product, applied by spray airless technique after surface preparation.

All or some of the requirements of this European Standard can apply to the internal linings of fittings, if agreed by the purchaser and the coater.

The lining in this European Standard can be applied to longitudinally or spirally welded tubes and to seamless steel tubes used for the construction of pipelines for conveying liquids.

These tubes are not intended to be bent after the epoxy lining has been applied.

This European Standard does not cover in-situ applied or rehabilitation linings.

The constituent materials of epoxy linings, when used under the conditions for which they are designed, in permanent or temporary contact with water intended for human consumption, should not change the quality of that water to such an extent that it fails to comply with the requirements of European regulations at the end user. For this purpose, reference should be made to the relevant national standards transposing EN standards when available, dealing with the influence of materials on water quality.

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.

EN 1184, *Materials and articles in contact with foodstuffs — Test methods for translucency of ceramic articles*

EN ISO 2808, *Paints and varnishes — Determination of film thickness (ISO 2808:1997)*

EN ISO 2811-1, *Paints and varnishes — Determination of density — Part 1: Pyknometer method (ISO 2811-1:1997)*

EN ISO 2815, *Paints and varnishes — Buchholz indentation test (ISO 2815:2003)*

EN ISO 3251, *Paints, varnishes and plastics — Determination of non-volatile-matter content (ISO 3251:2003)*

EN ISO 4287, *Geometrical product specification (GPS) — Surface texture: Profile method — Terms, definitions and surface texture parameters (ISO 4287:1997)*

EN ISO 4624, *Paints and varnishes — Pull-off test for adhesion (ISO 4624:2002)*