

Internal coating of cisterns by painting

Information within brackets ([...]) in this document refers to local regulations.

Scope

This guide advises on ordering internal coating of cisterns and is aimed at project organisation, purchasers, inspectors, contractors, suppliers and inspection bodies. The document is used as support for planning, procurement, selection of the right surface treatment, requirements setting, implementation and control, in order to avoid major costs of repair and maintenance work.

Contents

1 Terminology	1
2 Introduction	2
3 Qualification requirements	2
4 Design requirements	2
5 Specify order documentation based on cistern type	3
5.1 Cistern for storing flammable liquids	3
5.2 Cistern for storing non-flammable liquids	4
5.3 Cistern with media constituting mechanical wear on the coating	5
6 Design requirements	5
7 Inspection	6
8 Causes of faults and their consequences	6
9 Examples from reality where things went wrong	7
10 References	10
Appendix 1: Den engelska varianten	

1 Terminology

Cold wall effect – When a gradient occurs between a cold and a warm surface, osmosis occurs, causing water vapor to pass through the paint layer with blistering occurring.

FRP – Fiberglass reinforced plastic.