

GENERAL SPECIFICATION

CORROSION

GS EP COR 251

Internal coating of water injection pipelines
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1. Scope

This specification covers requirements and methods of tests for liquid epoxy paints and internal coatings made with such paints in pipes and fittings for the conveyance of water in water injection pipelines. It also deals with the application and inspection of the paint. Other paints or paint systems are not excluded provided they comply with the requirements given in this specification.

The coating consists of one or two layers, and is normally plant-applied on blast cleaned steel by airless spray or conventional spray techniques.

Note: The internal coating shall be applied AFTER application of the external coating.

2. Reference documents

The reference documents listed below form an integral part of this General Specification.

External Documents

Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published at the effective date of this document.

Reference	Title
ASTM D4940	Standard test method for conductimetric analysis of water soluble ionic contamination of blasting abrasives
ISO 15741	Paints and varnishes: Friction-reduction coatings for the interior of on and off shore steel pipelines for non corrosive gases
ISO 2808	Paints and varnishes - Determination of film thickness
ISO 4624	Paints and varnishes. Pull-off test
ISO 8501-1	Preparation of steel substrates before application of paints and related products - Visual assessment of surface cleanliness – Part 1: Rust grades and preparation grades of uncoated steel substrates and of steel substrates after overall removal of previous coatings
ISO 8502 (Parts 3; 6; 9)	Preparation of steel substrates before application of paints and related products - Tests for the assessment of surface cleanliness - Parts 3; 6; 9
ISO 8503 (Parts 1; 2)	Preparation of steel substrates before application of paints and related products. Surface profile of abrasive blast-cleaned steel - Parts 1; 2