

GENERAL SPECIFICATION

CORROSION

GS EP COR 420

External field joint coatings of pipelines

Rev.	Date	Purpose of the revision
10	10/2015	General revision
09	05/2015	Organisation change - January 2015
08	10/2012	Alignment with ISO 21809-3 - Approval of liquid product for onshore field joints
07	01/2011	Addition of requirements to avoid damages due to overheating during field joint coating application (§ 7.7)
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1. General

1.1 Scope

This specification details the acceptable types of external field joint coatings for onshore and offshore carbon steel pipelines (as described in Table 1) as a function of the plant coating existing on the pipes (as defined in Table 2).

Except when otherwise stated in the present document, requirements of [ISO 21809-3](#) fully apply for the different types of field joint coatings.

1.2 Terms and abbreviations

APS	Application procedure specification
PE	Polyethylene
PP	Polypropylene
CD	Cathodic disbondment
ITP	Inspection and test plan
PQT	Procedure qualification trial
PPT	Pre production trial

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
CSA Z245.20	Plant applied external coatings for steel pipes
ISO 21809-3	Petroleum and natural gas industries - external coatings for buried or submerged pipelines used in pipeline transportation systems - Part 3: Field joint coatings (2008)
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 (Part 3)	Preparation of steel substrates before application of paint and related products. Tests for the assessment of surface cleanliness - Part 3