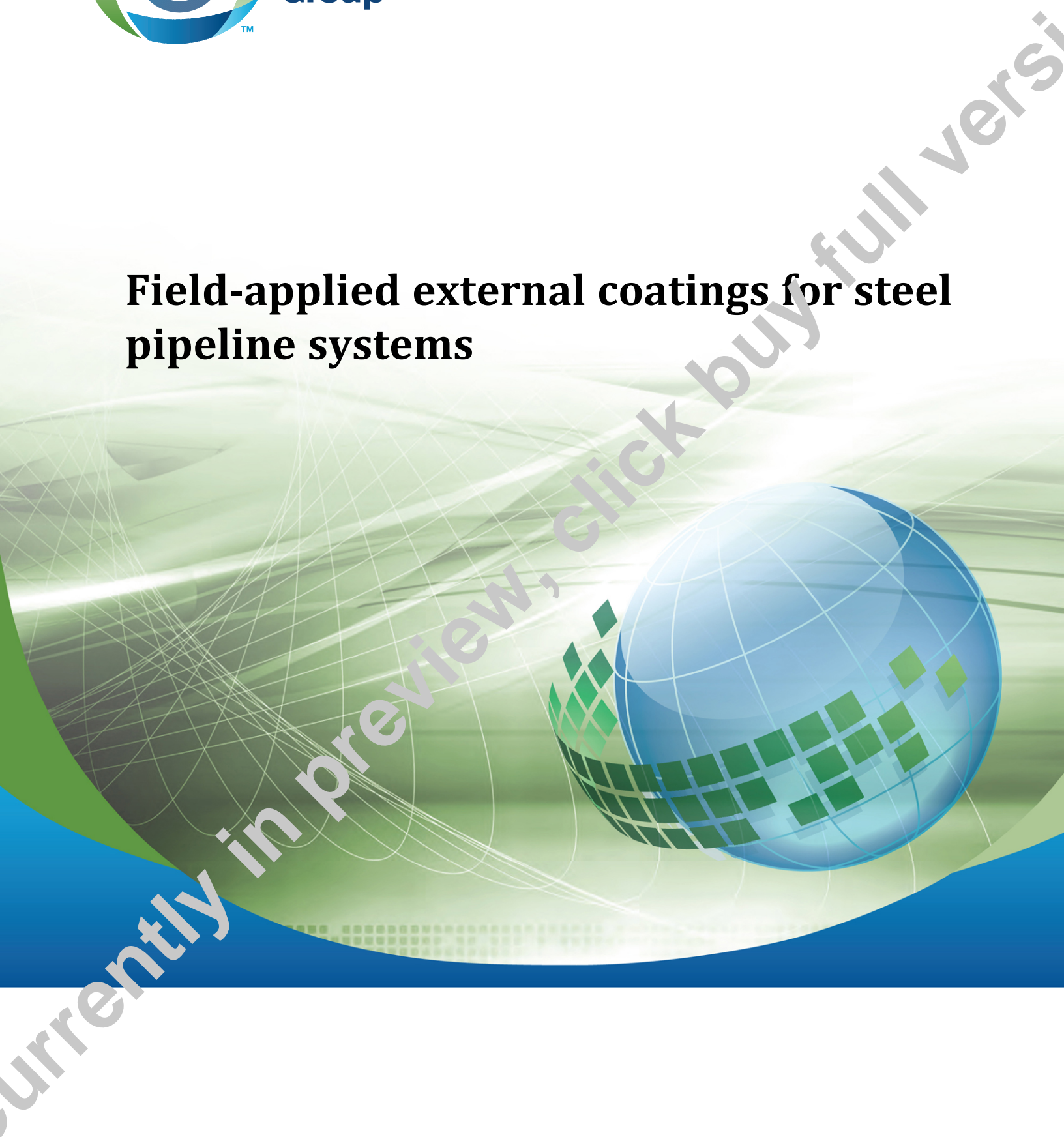




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Z245.30-14

Field-applied external coatings for steel pipeline systems



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Preface

This is the first edition of CSA Z245.30, *Field-applied external coatings for steel pipeline systems*.

This Standard was prepared by the Task Force on Field-Applied Coatings and the Subcommittee on Coatings, under the jurisdiction of the Technical Committee on Petroleum and Natural Gas Industry Pipeline Systems and Materials and the Strategic Steering Committee on Petroleum and Natural Gas Industry Systems, and has been formally approved by the Technical Committee.

Notes:

- 1) *Use of the singular does not exclude the plural (and vice versa) when the sense allows.*
- 2) *Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.*
- 3) *This Standard was developed by consensus, which is defined by CSA Policy governing standardization — Code of good practice for standardization as “substantial agreement. Consensus implies much more than a simple majority, but not necessarily unanimity”. It is consistent with this definition that a member may be included in the Technical Committee list and yet not be in full agreement with all clauses of this Standard.*
- 4) *To submit a request for interpretation of this Standard, please send the following information to inquiries@csagroup.org and include “Request for interpretation” in the subject line:*
 - a) *define the problem, making reference to the specific clause, and, where appropriate, include an illustrative sketch;*
 - b) *provide an explanation of circumstances surrounding the actual field condition; and*
 - c) *where possible, phrase the request in such a way that a specific “yes” or “no” answer will address the issue.*

Committee interpretations are processed in accordance with the CSA Directives and guidelines governing standardization and are available on the Current Standards Activities page at standardsactivities.csa.ca.

- 5) *This Standard is subject to review five years from the date of publication. Suggestions for its improvement will be referred to the appropriate committee. To submit a proposal for change, please send the following information to inquiries@csagroup.org and include “Proposal for change” in the subject line:*
 - a) *Standard designation (number);*
 - b) *relevant clause, table, and/or figure number;*
 - c) *wording of the proposed change; and*
 - d) *rationale for the change.*

Z245.30-14

Field-applied external coatings for steel pipeline systems

1 Scope

1.1

This Standard covers the qualification, application, inspection, testing, handling, and storage of materials required for coatings applied externally to steel piping in the field or a shop. Coated piping addressed by this Standard is intended primarily for buried or submerged service in oil or gas pipeline systems.

1.2

This Standard covers the following coating systems:

- a) System FC1: liquid-applied or fusion bond epoxy (FBE) with a glass transition temperature of up to 115 °C;
- b) System FC2: liquid-applied or FBE with a glass transition temperature of 115 °C or greater;
- c) System FC3: liquid-applied or FBE intended for abrasion service;
- d) System FC4: adhesive and a polymeric backing (e.g., tape, heat shrinkable sleeve);
- e) System FC5: epoxy primer, adhesive, and a polymeric backing (e.g., tape, heat shrinkable sleeve);
- f) System FC6: anti-corrosion coating, if applicable [see Items (a), (b), (d) and (e)], polyurethane foam insulation, and a polymeric backing with or without adhesive (e.g., tape, heat shrinkable sleeve);
and
- g) System FC7: fibre-reinforced petrolatum, paraffin-filled, or visco-elastic systems.

1.3

In this Standard, “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the standard; “should” is used to express a recommendation or that which is advised but not required; and “may” is used to express an option or that which is permissible within the limits of the standard.

Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material.

Notes to tables and figures are considered part of the table or figure and may be written as requirements.

Annexes are designated normative (mandatory) or informative (nonmandatory) to define their application.

2 Reference publications

This Standard refers to the following publications, and where such reference is made, it shall be to the editions listed below, unless the user finds it more appropriate to use newer or amended editions of such publications.