ISO/TR 20470-1:2026-03 (E)

New weatherable topcoats as part of an associated protective coating system - Part 1: Weathering of FEVE type fluoropolymer topcoat

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 General introduction of FEVE type fluoropolymer 2
4.1 Chemical structure of FEVE type fluoropolymer 2
4.2 Chemical curing system 2

5 Weatherability of fluoropolymer topcoats 3
5.1 Weatherability by fluorescent UV condensation cycle testing 3
5.2 Fifteen years weatherability test of FEVE type fluoropolymer topcoats 4
5.3 Actual bridges situation 6

6 Durability of fluoropolymer topcoat system 6
6.1 Results of collaboration study 6
6.2 Evaluation of the durability 9
6.2.1 Weatherability test during 29 years of fluoropolymer topcoat system 9
6.2.2 Test method 9
6.3 Summary 12

7 Health and safety 12

Annex A (informative) Examples of bridges with FEVE type fluoropolymer topcoat systems 13

Bibliography 16