DIN EN 12206-1:2021-07 (E)

Paints and varnishes - Coating of aluminium and aluminium alloys for architectural purposes - Part 1: Coatings prepared from thermosetting coating powder

Contents

Page

European foreword 3

Introduction 5

1 Scope 6

2 Normative references 6

3 Terms and definitions 7

4 Requirements 8
4.1 Material (substrate) 8
4.2 Pretreatment of the substrate 8
4.3 Coating powder 10
4.4 Coating process 13
4.5 Final product 13
4.6 Certificate of conformity 14

5 Test methods 15
5.1 General 15
5.2 Preparation of test panels for testing coating powders 15
5.3 Sampling of the final product and preparation of test specimens 15
5.4 Colour 15
5.5 Gloss 15
5.6 Adhesion 15
5.7 Cupping test 15
5.8 Falling weight test 16
5.9 Bend test 16
5.10 Resistance to mortar 16
5.11 Pressure cooker test 16
5.12 Resistance to boiling water 16
5.13 Resistance to humidity 16
5.14 Resistance to acetic acid salt spray 16
5.15 Resistance to sulfur dioxide 17
5.16 Resistance to filiform corrosion 17
5.17 Resistance to artificial weathering 17
5.18 Resistance to natural weathering (referee test) 17

Annex A(normative) Methods for the determination of the mass per unit area of conversion layers and for the identification of chromium, phosphorous and zinc 18

Annex B(normative) Requirements for alternative pretreatment 22

Annex C(normative) Measurement of film thickness 23

Bibliography 24