

Contents

Page

European foreword..... 4

1 Scope..... 6

2 Normative references..... 7

3 Terms and definitions 8

4 Essential principles and building programme 11

4.1 Essential principles 11

4.2 Building programme..... 12

5 Materials..... 12

5.1 Types of render 12

5.2 Materials for site-made renders..... 14

5.3 Water 15

5.4 Materials for reinforcement, carrier and beads 15

5.5 Fixings 16

5.6 Furring..... 17

6 Design considerations 17

6.1 General..... 17

6.2 Factors affecting the design of the rendering system 17

6.3 Characteristics of background 18

6.4 Adequacy of the background 19

6.5 Durability of the render 20

6.6 Exposure conditions..... 21

6.7 Resistance to rain penetration 21

6.8 Resistance to water rising from the ground without pressure (capillary water) 22

6.9 Soluble salts 22

6.10 Effects of atmospheric pollution..... 22

6.11 Effects of freezing..... 22

6.12 Resistance to impact or abrasion 23

6.13 Corrosion of metals 23

6.14 Occurrence of cracking 23

6.15 Thermal considerations 26

6.16 Protection afforded by architectural features and functions 26

6.17 Selection of renders..... 36

6.18 Number, thickness and relative strength of coats..... 37

6.19 Types of finish 40

6.20 Colour and texture..... 40

7 Work on site, preparation and application of renderings 41

7.1 General..... 41

7.2 Storage of materials 41

7.3 Scaffolding 41

7.4 Protection of adjacent surfaces..... 41

7.5 Preparation of background 41

7.6 Proportioning of mix materials on site 44

7.7 Mixing on site..... 44

7.8 Forming architectural features..... 45

POLSKI KOMITET NORMALIZACYJNY 2022

7.9 Application of the various coats..... 45

8 Maintenance and repair (other than restoration)..... 46

8.1 General 46

8.2 Inspection 47

8.3 Repairs to cracks..... 47

8.4 Repair of hollow or detached areas 47

8.5 Overcoming unsatisfactory appearance..... 48

8.6 Overcoming water penetration 49

Annex A (informative) Example on the selection of site mixed prescribed renders mixed in accordance with background type 50

A.1 General 50

A.2 Strong mixes 50

A.3 Moderately strong mixes 50

A.4 Weak mixes..... 50

Annex B (informative) Restoration of renders on old and historic buildings..... 51

B.1 General 51

B.2 Preliminary investigations..... 51

B.3 Preparatory work..... 53

B.4 Restoration systems and measures 53

B.5 Design 54

B.6 Application..... 54

Annex C (informative) Examples of products for reinforcement, carrier and beads..... 56

C.1 General 56

C.2 Figures 56

Annex D (informative) Examples of types of finish 60

Bibliography 61