ISO 11617:2022-01 (E)

Building and civil engineering sealants - Determination of changes in cohesion and appearance of elastic weatherproofing sealants after exposure of statically cured specimens to artificial weathering and mechanical cycling

Contents

Page

Foreword ... iv

1 Scope ... 1

2 Normative references ... 1

3 Terms and definitions ... 1

4 Principle ... 1

5 Apparatus ... 2
- 5.1 Support ... 2
- 5.2 Spacers ... 2
- 5.3 Backing material (bond breaker) ... 3
- 5.4 Separators ... 3
- 5.5 Container ... 4
- 5.6 Ventilated convection-type oven ... 4
- 5.7 Fully automated test chamber with an artificial light source ... 4
- 5.8 Artificial light source ... 4
  - 5.8.1 General ... 4
  - 5.8.2 Xenon-arc light source (default) ... 5
  - 5.8.3 Fluorescent ultraviolet source (option) ... 5
  - 5.8.4 Open-flame carbon arc source (option) ... 5
- 5.9 Black standard (insulated) and black panel (uninsulated) temperature sensors ... 5
- 5.10 Measuring tools ... 5

6 Preparation of test specimens ... 5

7 Conditioning ... 6
- 7.1 General ... 6
- 7.2 Method A (default) ... 6
- 7.3 Method B (option) ... 6

8 Test conditions ... 6
- 8.1 Test conditions of artificial weathering ... 6
  - 8.1.1 Test conditions of xenon-arc lamps device ... 6
  - 8.1.2 Test conditions of fluorescent UV lamps device ... 7
  - 8.1.3 Test conditions of open-flame carbon arc lamps device ... 7
- 8.2 Mechanical cycling ... 8
- 8.3 Degradation cycles ... 8

9 Test procedure ... 8

10 Examination for defects ... 9
- 10.1 General ... 9
- 10.2 Sections through sealant test specimen ... 9
- 10.3 Rating for cohesive cracks in zone C ... 10

11 Photo documentation of test specimens ... 12

12 Test report ... 13

Annex A (informative) **Engineering drawing of anodized aluminium support assembly** ... 15

Annex B (informative) **The reference size of the separator** ... 16

Bibliography ... 18