



TECHNICAL REPORT

**Exposure procedure  
for accelerated  
ageing by heat**

TR 011  
Edition May 2004

# Technical Report 011 revised

## Exposure procedure for accelerated ageing by heat

Edition May 2004

### Foreword

*EOTA Technical Reports are developed as supporting reference documents to European Technical Approval Guidelines and can also be applicable to a Common Understanding of Assessment Procedures, an EOTA Comprehension Document or an European Technical Approval, as far as reference is made therein.*

*EOTA Technical Reports go into detail in some aspects and express the common understanding of existing knowledge and experience of the EOTA bodies at a particular point in time.*

*Where knowledge and experience is developing, especially through approval work, such reports can be amended and supplemented.*

*When this happens, the effect of the changes upon the European Technical Approval Guidelines will be laid down in the relevant comprehension documents, unless the European Technical Approval Guideline is revised.*

*This EOTA Technical Report has been prepared by the EOTA Working Group 04.02/01 – “Liquid applied roof waterproofing Kits” and endorsed by EOTA.*

## 1 Scope

This EOTA Technical report specifies the exposure procedure for accelerated ageing by heat, equipment and the procedure for conditioning samples of an installed product of liquid applied roof waterproofing kits, in order to determine the possible effect of this exposure on various characteristics of the product, by comparative testing.

## 2 Principle

The conditioning of samples is performed by exposing the samples to a defined temperature during a specified period of time.

## 3 Apparatus

### 3.1 Oven

With forced air circulation and with temperature regulation to a range of 50°C to 100°C with an accuracy of  $\pm 2^\circ\text{C}$ . The internal dimensions are such to contain the frame (see clause 3.2).

### 3.2 Shelf

To support the test sample and enabling a uniform heating with dimensions to fix the test specimen.

### 3.3 Accessories

Siliconized paper to avoid deformation in case of thermoplastic samples.

## 4 Test specimen

The test specimen is a free sample, defined as required for the specific test, of the installed and cured roof waterproofing kit, from which the test specimens are obtained after exposure.

## 5 Procedure

- 5.1 Bring the oven to the required temperature
- 5.2 Place the test specimen on its supporting frame in the oven.
- 5.3 Maintain the required temperature during the specified period of time.
- 5.4 After the exposure period remove the sample from the oven, bring it back to ambient temperature and maintain it at that temperature for 24 hours before further testing.
- 5.5 Prepare the test specimens according to the appropriate test method(s) for evaluation of any exposure effects on the relevant products characteristics as specified in the relevant Parts of the ETAG 005.

## 6 Expression of results

- 6.1 Examine visually unexposed and exposed test specimens and record any occurred exposure effects.
- 6.2 Observe, compare and record the differences in appearance of the unexposed and exposed test specimens as regards their relevant characteristics.

## 7 Test report

The test report shall include the following information:

- a. reference to this Technical Report;
- b. the name of the testing laboratory;
- c. date/period of exposure;
- d. description of the installed product, including shape and dimensions;
- e. type of exposure, temperature and period of time;
- f. all visual observations;
- g. results of evaluation of exposure effects;
- h. all operating details, not specified in this Technical Report, as well as incidents likely to have influenced the process.

## Annex A

### Bibliography

- Directive Générale UEAtc pour l'Agrément des revêtements d'étanchéité des toitures - July 1982.