External Exposure to Fire Classification Report

Liquid applied roof waterproofing kit consisting of KEMPEROL 2K-PUR on KEMPEROL 165 Fleece on KEMPERTEC EP5-Primer scattered with KEMCO NQ0408



Client: KEMPER SYSTEM GmbH & Co. KG

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Client information

Client: KEMPER SYSTEM GmbH & Co. KG

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This Classification report should only be reproduced in extenso - in extracts only with a written agreement with this institute.

This classification report supersedes DBI's classification report dated 2020-05-25 under the file number above.



1. Introduction

This classification report defines the classification assigned to the roof covering system consisting of "KEMPEROL 2K-PUR on KEMPEROL 165 Fleece on KEMPERTEC EP5-Primer scattered with KEMCO NQ0408" in accordance with the procedures given in EN 13501-5:2016.

2. Details of roof covering system

2.1 Nature and end use application

The roof covering system "KEMPEROL 2K-PUR on KEMPEROL 165 Fleece on KEMPERTEC EP5-Primer scattered with KEMCO NQ0408" is defined as a liquid applied roof waterproofing kit based on Polyurethane according to ETAG 005:2000, part 1 & 6.

Its classification is valid for the product that in the end use application is applied onto polyester reinforced thermoplastic waterproofing membranes with non-combustible substrates, cf. 4.3.

2.2 Description

The roof covering system "KEMPEROL 2K-PUR on KEMPEROL 165 Fleece on KEMPERTEC EP5-Primer scattered with KEMCO NQ0408" is fully described in the test report in support of the classification listed in 3.1.

3. Reports and test results in support of this classification

3.1 Reports

Name of laboratory	Name of client	Report ref. No	Test method/field of application rules	Date
DBI	KEMPER SYSTEM GmbH & Co. KG	PFA11538A	CEN/TS 1187 Test 2	2020-04-20/21



Date: 2020-07-06

3.2 Test results

Test conditions:

Applied to a polyester reinforced thermoplastic waterproofing membrane and loose laid onto a standard substrate of mineral wool with a measured density of 167.3 kg/m³.

Test pitch: 30°

Parameter	Criteria		Test results ^a				Compli-	
	Mean	Max	Spe.1	Spe.2	Spe.3	Mean	Max	ance Y/N
Damaged length at 2 m/s – roof covering	≤ 0,550 m	≤ 0,800 m	0,345	0,300	0,340	0,328	0,345	Y
Damaged length at 2 m/s – substrate	≤ 0,550 m	≤ 0,800 m	0,115	0,175	0,130	0,140	0,175	Y
Damaged length at 4 m/s – roof covering	≤ 0,550 m	≤ 0,800 m	0,340	0,335	0,290	0,322	0,340	Y
Damaged length at 4 m/s – substrate	≤ 0,550 m	≤ 0,800 m	0,050	0,060	0	0,037	0,060	Y
^a Not for extended application.								

Not for extended application.

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-5:2016.

4.2 Classification

The roof covering system consisting of "KEMPEROL 2K-PUR on KEMPEROL 165 Fleece on KEMPERTEC EP5-Primer scattered with KEMCO NQ0408" in relation to its external fire performance is classified: B_{ROOF}(t2).



4.3 Field of application

This classification is valid for the following conditions:

On any polyester reinforced thermoplastic waterproofing membrane with a thickness greater than 1,1 mm with a non-combustible substrate with density equal to or greater than 125,5 kg/m³.

5. Limitations

This report does not represent type approval or certification of the product.

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