



GOBIERNO
DE ESPAÑA

MINISTERIO
DE INDUSTRIA, ENERGÍA
Y TURISMO

MINISTRY OF INDUSTRY, TOURISM AND TRADE
LICOE: Official Laboratory for Fire Testing
R.D. 1614/1985 on 1st of August
M.O. on 21st of May of 1991



AFITI
LICOE

Centre for Fire Testing
and Research

Association for the Promotion of Research and Fire Safety Technology

Classification Report

Reaction to Fire Laboratory



APPLICANT:



TECNOPOL SISTEMAS, S.L.

**REACTION TO FIRE CLASSIFICATION ACCORDING TO
UNE-EN 13501-5:2007+A1:2010 STANDARD**

- Product: **Polyurea liquid membrane**
- Manufacturer: Tecnopol Sistemas, S.L.
- Reference: "TECNOCOAT P-2049"

REACTION TO FIRE CLASSIFICATION ACCORDING TO UNE-EN 13501-5:2007+A1:2010 STANDARD

Applicant: **TECNOPOL SISTEMAS, S.L.**
Pol. Ind. Z, Carrer de la premsa, 5
08150 – BARCELONA

Issuer Laboratory: **AFITI-LICOF**
Notified body n°: 1168

Product: Polyurea liquid membrane
Manufacturer: Tecnopol Sistemas, S.L.
Reference: “TECNOCOAT P-2049”

Classification report Nr: **2313T11-2 (English Version)**
Date of issue: 14th-Jun-13



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This report is a translation of the Spanish Classification Report dated 10th-Nov-11. In case of doubt, the Spanish version of the Classification Report prevails.

The information held in this Classification Report is a confidential nature, meaning the Laboratory shall not provide information in relation to this report to third parties, except with the authorisation of the Applicant.

It is not allowed to reproduce partially this Classification Report without the Laboratory's written approval..



1.- AIM OF THE REPORT

This Classification report defines the Reaction to Fire classification assigned to the polyurea liquid membrane referenced by the applicant as “TECNOCOAT P-2049” on the basis of the procedures established in the standard UNE-EN 13501-5:2007+A1:2010 “*Fire classification of construction products and building elements-Part 5: Classification using data from external fire exposure to roofs tests*”.

2.- DETAILS OF CLASSIFIED PRODUCT

2.1.- GENERAL

The product defined by the applicant as “TECNOCOAT P-2049” defined as polyurea liquid membrane according to the corresponding technical specification.

2.2.- DESCRIPTION

The product is fully described in the test report is based on. This report is indicated in the chapter 3 of this report.

3.- REPORTS AND TEST RESULTS IN SUPPORT OF THIS CLASSIFICATION

3.1.- TESTS.

Tests reports

Issuer Laboratory	Applicant	Report	Test standard	End use application
AFITI-LICOF Pol. Ind. Sta. Mª de Benquerencia C/ Río Estenilla, s/n <u>45007-TOLEDO</u>	TECNOPOL SISTEMAS, S.L. Pol. Ind. Z, Carrer de la premsa, 5 08150 – BARCELONA	Nº: 2313T11 Date of issue: 10 ^h -Nov-11 Test date: 14 th -Jul-11	UNE-ENV 1187:2003	Continuous waterproofing of roofs.
Notified Body Nr: 1168				



Test results

Test report n° 2313T11

Parámetros	Criteria	Results				Fulfills
		1	2	3	4	
Internal fire spread upwards (mm)	< 700	---	---	---	---	Yes
External fire spread upwards (mm)	< 700	125	142	210	105	Yes
Internal fire spread downwards (mm)	<600	---	---	---	---	Yes
External fire spread downwards (mm)	< 600	100	100	110	100	Yes
Internal maximum burning length (mm)	< 800	---	---	---	---	Yes
External maximum burning length (mm)	< 800	125	142	210	105	Yes
Occurrence of burning (droplets or debris) falling from exposed side.	None	no	no	no	no	Yes
Burning/glowing combustion particles penetrating the roof construction	None	no	no	no	no	Yes
Opening area (mm ²)	< 25	---	---	---	---	Yes
Total opening areas (mm ²)	< 4.500	---	---	---	---	Yes
Lateral fire spread reaches the limits of the measuring area	< edges of the measurement area	no	no	no	no	Yes
Internal glowing combustion	None	no	no	no	no	Yes
Radius of fire spread (on horizontal roofs) (m)	< 0,200	N/A	N/A	N/A	N/A	N/A

4.- CLASSIFICATION AND FIELD OF APPLICATION

4.1.- CLASSIFICATION STANDARD

Reaction to Fire classification according to UNE-EN 13501-5:2007+A1:2010 standard.

4.2.- CLASSIFICATION

The product “TECNOCOAT P-2049” reaches the following classification:

Reaction to fire classification

Fire Behaviour
B_{ROOF} (t1)



4.3.- FIELD OF APPLICATION

This classification is only valid for the mounting conditions and the characteristics product detailed in the test report nr 2313T11.

According to UNE-ENV 1187:2003 standard the product has the following field of application.

<u>Characteristic/Property</u>	<u>Range allowed</u>
- Type of product	Polyurea liquid membrane
- Substrate	Results valid for any non combustibility substrate with a minimum thickness of 10 mm
- Roof pitch	Results valid for roofs with a pitch lower than 20°

5.- **LIMITATIONS**

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

Toledo, 11st of June of 2013

Author:

Supervised:



Signed: David Sáez García
Technician of Fire
Reaction Laboratory

Signed: Antonio Galán Penalva
Technical Director of
Fire Reaction Laboratory





Association for the Promotion of Research and Fire Safety Technology



Tomás de la Rosa Sánchez, General Manager of AFITI declares:

- That AFITI (Association for the Promotion of Research and Fire Safety Technology), is a non profit-making association and was declared Association of Public Utility by the Spanish Cabinet on 27th January 1995.
- That the ownership of LICOF (Centre for Fire Testing and Research) is of Ministry of Industry, Energy and Tourism, by R.D. 1614/85 and O.M. on 21st may 1991, corresponding, by agreement, the management to AFITI.
- That LICOF is the Fire Testing and Research Center corresponding to the Technical Unit of Test accredited by the National Accreditation Body (ENAC), to act under files Nr. 41/LE104 and Nr. 41/LE204.

A handwritten signature in red ink, appearing to read 'T. de la Rosa', is written over a vertical red line.

Signed: Tomás de la Rosa Sánchez
General Manager

Recognition / Accreditation: MINISTRY OF INDUSTRY, ENERGY AND TOURISM, MINISTRY OF PUBLIC WORKS, ENAC, IMO & VKF-AEAI.

Notify Body: NOTIFY BODY TO THE EUROPEAN COMMISSION WITH NR. 1168.

Member of: AELAF, AENOR, ASELF, AIDICO, EGOLF & NFPA.

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