



AFITI
LICOF Center for Fire Testing
and Research

Association for the Promotion of Research
and Fire Safety Technology

CLASSIFICATION REPORT

Reaction to Fire Laboratory

APPLICANT:

BONA KEMI, S.L.

**REACTION TO FIRE CLASSIFICATION ACCORDING
TO STANDARD UNE EN 13501-1:2002**

- Material: Polyurethane varnish in watery dispersion
 - Manufacturer: Bona Kemi, S.L.
 - Reference: "SPORTIVE FINISH"



MINISTERIO
DE INDUSTRIA, TURISMO
Y COMERCIO

LICOF: Official Laboratory for Fire Testing
R.D. 1614/1985 on 1st Agust.
O.M. On 21st May 1991.

HEAD OFFICE & LABORATORIES

Address Ant. Ctra. Valencia, km 23,400.
E-28500 ARGANDA DEL REY (Madrid)

Telephone +34 91 871 35 24
Fax +34 91 871 20 05

Web www.afiti.com
E.mail licof@afiti.com afiti@afiti.com

CENTRAL OFFICE & LABORATORIES

C/ Río Estenilla, s/n - Pol. Ind. Sta. M^a de Benquerencia
(Centro Tecnológico de la Madera)
E-45007 TOLEDO
+34 925 231 559
+34 925 240 679



AFITI
LICOF Center for Fire Testing
and Research



MINISTERIO
DE INDUSTRIA, TURISMO
Y COMERCIO

Tomás de la Rosa Sánchez, General Director 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, Tourism and Trade, by R.D. 1614/85 and O.M. on 21st may 1991, corresponding, by agreement, the management to AFITI.

21st of June of 2006

Signed: Tomás de la Rosa Sánchez
General Director

Recognition / Accreditation: MINISTERIO DE INDUSTRIA, TURISMO Y COMERCIO, MINISTERIO DE FOMENTO, ENAC & IMO.

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

Member of: AEC, AELAF, AENOR, ASELF, AIDICO, EGOLF, ENAC, EUROLAB, FORÉTICA & NFPA.



**REACTION TO FIRE CLASSIFICATION ACCORDING TO
UNE EN 13501-1:2002**

Applicant:	BONA KEMI, S.L. C/ Paloma, 1. Ind Area. "Los Gallegos" <u>28946-FUENLABRADA (Madrid)</u>
Emissor laboratory:	AFITI-LICOF Notified Body nº: 1168
Product:	Polyurethane varnish in watery dispersion Manufacturer: Bona Kemi, S.L. Reference: "SPORTIVE FINISH"
Classification report	0807T06-3 Emission date: 21 st -Jun-06

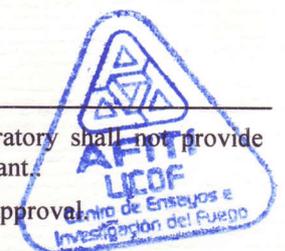


Content of the report

1.- Report scope	.....	Sheet 3
2.- Classification product details	.....	Sheet 3
3.- Reports and test results in which this classification is based	.....	Sheet 4
4.- Classification and Direct field of application	.....	Sheet 5
5.- Limits	.....	Sheet 5

The information held in this Report of test is of 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.

This Classification Report should not be partially reproduced without the Laboratory's written approval.



1.- REPORT SCOPE

This Classification Report defines the Reaction to Fire classification given to a polyurethane varnish in waterish dispersion, referenced by the applicant as "SPORTIVE FINISH" according to de procedures established in the Standard UNE EN 13501-1:2002 "*Fire classification of construction products and building elements. Part 1: Classification using test data from reaction to fire tests*".

2.- CLASSIFICATION PRODUCT DETAILS

2.1.- DESCRIPTION

Colourless polyurethane varnish in watery dispersion with smooth aspect. It is applied (4 hands) onto standardized fibrecement substrate by the applicant.

The product is completely described in the test reports in wich this classification is based. These. Product details are descripted at test reports this cassification is based on.

2.2.- USE OF GENERIC OR SPECIAL PRODUCTS

Fibrecement has been used as standard sustrated as is specified in the UNE EN 13238:2002 Standard "*Reaction to fire tests for building products. Conditioning procedures and general rules for selection of substrates*".

2.3.- ASSEMBLY METHOD

In the Test Report Nr 0807T06-2 is specified the assembly method of the sample.

2.4.- PRODUCT USE

The varnish is designed to be used in/above sport floorings.

3.- REPORTS AND TEST RESULTS IN WHICH THE CLASSIFICATION IS BASED.

Reports

Emissor laboratory	Applicant	Reports	Tested sample	Test Standard	Application field
AFITI-LICOF Ind. Area. Sta. M ^a de Benquerencia C/ Río Estenilla, s/n 45007-TOLEDO Notified body Nr: 1168	BONA KEMI S.L. C/ Paloma nº1 28946- FUENLABRADA (Madrid)	Nº: 0807T06 Emission date 21 st -Jun-06 Test date 21 th -Apr-06	Polyurethane Varnish in watery dispersion. Reference: "SPORTIVE FINISH"	UNE EN ISO 11925:2002	The varnish is designed to be used in/above sport floorings
		Nº: 0807T06-2 Emission date 21 st -Jun-06 Test date 21 th -Apr-06		UNE EN ISO 9239-1:2002	

Test results

Test method	Parameter	Number of test	Results	
			Continuous parameter average (m)	Parameter must be done
UNE EN ISO 11925-2:2002				
Exposition = 15 s	$F_s \leq 150$ mm	1	Non applicable	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Flammable drops/particles	Filter paper ignition		Non applicable	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Test Method	Parameter	Number of test	Results	
			Continuous parameter average (m)	Parameter must be done
UNE EN ISO 9239-1:2002, R.F.P.	CF (kW/ m ²)	1	12,45	Non applicable
	HF-30 (kW/m ²)		12,45	Non applicable
	Extinction time (s)		395	Non applicable
	Maximum spread (mm)		33,33	Non applicable
	TLA-30 (%/min)		18,24	Non applicable

CF (kW/ m²) = Critical heat flux at extinguishment

HF-30 (kW/m²) = Heat flux ant 30 min

TLA-30 (%/min) = Total ligh attenuation

4.- CLASSIFICATION AND DIRECT FIELD OF APPLICATION

4.1.- CLASSIFICATION STANDARD

This classification has been realized according to the 11 point of the UNE EN 13501-1:2002 Standard.

4.2.- CLASSIFICATION

The product "SPORTIVE FINISH" in relation with its Reaction to Fire behaviour is classified:

Reaction to Fire Classification

Fire behaviour	—	Smoke production	
B_{fl}		s	1

B_{fl} – s1

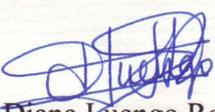
4.3.- APPLICATION FIELD

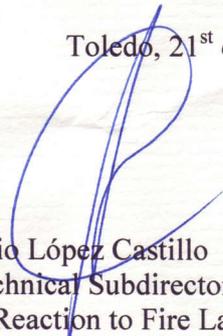
This classification is only valid for the assembly conditions and the characteristics of the product detailed in the Test Reports Nr 0807T06 and 0807T06-2.

5.- LIMITS

This report doesn't represent neither approbation nor certification of the product.

Toledo, 21st of June of 2006


 Fdo: Diana Luengo Rojo
 Tehnical Director of LICOF


 Fdo: Sergio López Castillo
 Technical Subdirector of
 of Reaction to Fire Laboratory