

Allgemeine bauaufsichtliche Zulassung

Zulassungsetzelle für Bauprodukte und Bauarten

Bautechnisches Prüfamt

Eine vom Bund und den Ländern
gemeinsam getragene Anstalt des öffentlichen Rechts
Mitglied der EOTA und der UEAtc

Datum: 23.12.2010 Geschäftszeichen: II 46-1.157.10-63/10

Zulassungsnummer:
Z-157.10-25

Geltungsdauer bis:
23. Dezember 2015

Antragsteller:
Bona AB
PO Box 21074
20021 MALMÖ
SCHWEDEN

Zulassungsgegenstand:
**Oberflächenbeschichtungen für Parkette und Holzfußböden
"BONA 1K Wasserlacke"**

Der oben genannte Zulassungsgegenstand wird hiermit allgemein bauaufsichtlich zugelassen.
Diese allgemeine bauaufsichtliche Zulassung umfasst fünf Seiten und eine Anlage.



DIBt

Anlage 1

Produktname:

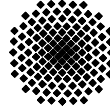
"BONA 1K Wasserlacke"

Auflistung der in der Zulassung geregelten Einzelprodukte:

Lfd. Nr	Produkt	Glanzgrade
1	BONA Mega	glänzend, halbmatt, matt, extra matt
2	BONA Novia	glänzend, halbmatt, matt, extra matt

Lfd. Nr.	Grundierung
1	BONA Prime Classic





Materialprüfungsanstalt Universität Stuttgart -Otto-Graf-Institut- - D-70550 Stuttgart

BonaKemi AB
Murmansgatan 130
SE-200 21 Malmö
Sweden

Section: 55150 „Sports floors,
sports facilities“
Location: Pfaffenwaldring 4 g
70569 Stuttgart
Your contact person: Dipl.-Ing. Knauf
Phone: int. + 711- 685-3379 (-3370,-3359)
Fax: int. + 711- 685-2765
E-Mail: hans-peter.knauf@po.uni-stuttgart.de
Your reference: Anna Tonell
Your message dated: 12-06-2005
Our reference: 901 0059-1/Kf
Stuttgart, date 12-16-2005

Please send your letters with our reference number to the Materialprüfungsanstalt and not to single officials in charge.

Subject: Testing of the sliding properties according to DIN V 18032-2:2001-04

Dear Sirs,

you commissioned us test the sliding properties according to DIN V 18032-2:2001-04 on parquet samples sealed and finished with “**Mega Gloss**”, “**Mega Silk Matt**” and “**Mega Matt**”.

The following test results were obtained:

“Mega Gloss”

test spot no.	sliding coefficient μ
1	0,54
2	0,55
3	0,55
4	0,54
5	0,55

According to DIN EN ISO/IEC 17025 accredited testing laboratory by DAP Deutsches Akkreditierungssystem Prüfwesen GmbH Prüflaboratorium.
The accreditation is valid for the testing procedures listed in the document (DAR-Reg.-Nr.: DAP-PL-2907.99). Additional accreditations according to DIN EN ISO/IEC 17025 by DKD/PTB, KBA, ZLS and certification according to DIN EN ISO 9001:2000 by TÜV. DIBT recognized PÜZ-authority, EU notified authority 0672 und 1080.

“Mega Silk Matt”

test spot no.	sliding coefficient μ
1	0,53
2	0,52
3	0,52
4	0,52
5	0,53

“Mega Matt”

test spot no.	sliding coefficient μ
1	0,50
2	0,52
3	0,50
4	0,51
5	0,52

All tested variations of the product „**Mega**“ (Gloss, Silk Matt and Matt) met the requirements of DIN V 18 032-2:2001-04 regarding the sliding properties of μ min. 0,4; μ max. 0,6.

Best regards

Dipl.-Ing. Hans-Peter Knauf
Section Leader

P R Ü F U N G S Z E U G N I S

Nummer: ST-09-03-17-01

Produkt: Parkettlacke mit folgenden Bezeichnungen:
Var. 1: Bona Novia, halbmatt
Var. 2: Bona Mega, halbmatt
Var. 3: Bona Flow, halbmatt
Var. 4: Bona Traffic, matt

Auftraggeber: Bona Vertriebsgesellschaft mbH Deutschland
Jahnstr. 12
65549 LIMBURG / LAHN

Auftrag / Prüfmethode - Bestimmung der Speichel- und Schweißechtheit gemäß DIN V 53160
Teil 1 und 2
- Bestimmung des Migrationsverhaltens gemäß EN 71-3

Prüfbericht: 279078

Prüfergebnis:

Speichel- und Schweißechtheit

Beim einem Kontakt mit speichel- und schweißsimulierenden Substanzen gemäß DIN 53160 wurde bei der untersuchten Varianten 1, 2, 3 und 4 kein Herauslösen von Farbstoffen festgestellt.

Migrationsverhalten

Bei der untersuchten Varianten 1, 2, 3 und 4 wurden die Grenzwerte für das Migrationsverhalten gemäß EN 71-3 für alle untersuchten Elemente eingehalten.

Dresden, 17.03.2009



Leiter des Prüflaboratoriums



verantwortlicher Bearbeiter

PRÜFUNGSZEUGNIS

Nummer: ST-09-03-17-02

Produkt: Parkettlacke mit folgenden Bezeichnungen:

Var. 5 Bona Naturale 1K

Var. 6: Bona Naturale 2K

Auftraggeber: Bona Vertriebsgesellschaft mbH Deutschland
Jahnstr. 12
65549 LIMBURG / LAHN

Auftrag / Prüfmethode

- Bestimmung der Speichel- und Schweißechtheit gemäß DIN V 53160 Teil 1 und 2
- Bestimmung des Migrationsverhaltens gemäß EN 71-3

Prüfbericht: 279078

Prüfergebnis:

Speichel- und Schweißechtheit

Beim einem Kontakt mit speichel- und schweißsimulierenden Substanzen gemäß DIN 53160 wurde bei der untersuchten Varianten 5 und 6 kein Herauslösen von Farbstoffen festgestellt.

Migrationsverhalten

Bei der untersuchten Varianten 5 und 6 wurden die Grenzwerte für das Migrationsverhalten gemäß EN 71-3 für alle untersuchten Elemente eingehalten.

Dresden, 17.03.2009



Leiter des Prüflaboratoriums



verantwortlicher Bearbeiter



ROK ZAŁOŻENIA
ESTABLISHED IN
1952

JEDNOSTKA
NOTYFIKOWANA
NR 1583
NOTIFIED BODY
No. 1583



AC 098

CERTYFIKAT AKREDYTACJI
JEDNOSTKI CERTYFIKUJĄCEJ WYROBY
ACCREDITATION CERTIFICATE
FOR PRODUCT CERTIFICATION BODY



AB 088

CERTYFIKAT AKREDYTACJI
LABORATORIUM BADAWCZEGO
ACCREDITATION CERTIFICATE
OF TESTING LABORATORY



MEDAL
IM. M. OCZĄPOWSKIEGO
M. OCZĄPOWSKI
MEDAL



POLSKA PLATFORMA
TECHNOLOGICZNA SEKTORA
LEŚNO-DRZEWNEGO
POLISH TECHNOLOGY PLATFORM
FOR FORESTRY AND WOOD
SECTOR

INSTYTUT TECHNOLOGII DREWNA

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BANK MILLENNIUM SA 36 1160 2202 0000 0000 6089 3555 • NIP 777-00-00-985 • REGON 000124050 • KRS 0000106475

A-404-BOŚ/2007

Poznań, 30 September 2011

Reaction to fire classification report

1 Introduction

This classification report defines the classification assigned to the flooring consisting of a 12-millimetre-thick fire-resistant EUROSPAN® Flammex particleboard of class B_{fl} covered with 3 layers of top coating **Bona Mega** in accordance with the procedures given in EN 13501-1:2007.

CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH EN 13501-1:2007

Sponsor:	Bona AB Murmansgatan 130 SE-200 21 Malmö Sweden
Prepared by:	Wood Technology Institute (Instytut Technologii Drewna) ul. Winiarska 1 PL-60-654 Poznań Poland
Notified Body No.:	1583
Product name:	flooring consisting of a 12-millimetre-thick fire-resistant EUROSPAN® Flammex particleboard of class B _{fl} covered with 3 layers of top coating Bona Mega
Classification report No.:	9/2007
Issue number:	2
Date of issue:	30 September 2011

This classification report consists of four pages and may only be used or reproduced in its entirety.

2 Details of classified product

2.1 General

The product, the flooring consisting of a 12-milimetre-thick fire-resistant EUROSPAN® Flammex particleboard of class B_{fl} covered with 3 layers of top coating **Bona Mega**, is defined as a flooring.

2.2 Product description

The product, the flooring consisting of a 12-milimetre-thick fire-resistant EUROSPAN® Flammex particleboard of class B_{fl} covered with 3 layers of top coating **Bona Mega**, is described below or is described in the reports provided in support of classification listed in 3.1.

Total thickness	12 mm
Density of particleboard	660 kg/m ³
Type of finish	one-component waterborne 100% polyurethane oxygen crosslinking finish
Application rate	100-120 g/m ² per layer
Number of lacquer layers	3

3 Reports and results in support of this classification

3.1 Reports

Name of Laboratory	Name of sponsor	Report ref. no.	Test method and date Field of application rules and date
Wood, Wood-Based Materials, Packaging, Furniture, Wooden Constructions and Woodworking Machines Testing Laboratory of Wood Technology Institute in Poznań	Bona AB Murmansgatan 130 SE-200 21 Malmö Sweden	35/2007 record no. 6/35/2007	EN ISO 9239-1 (radiant heat source method) 18 June 2007 direct application
Wood, Wood-Based Materials, Packaging, Furniture, Wooden Constructions and Woodworking Machines Testing Laboratory of Wood Technology Institute in Poznań	Bona AB Murmansgatan 130 SE-200 21 Malmö Sweden	36/2007 record no. 6/36/2007	EN ISO 11925-2 (direct impingement of single flame method) 18 June 2007 direct application

3.2 Results

Test method and test number	Parameter	No. Tests	Results	
			Continuous parameter – mean (m)	Compliance with parameters
EN ISO 9239-1 (radiant heat source method) A-404-BOŚ/2007/6/6K	Critical heat flux (kW/m ²)	3	11.0	(-)
	Smoke production (%·min)		6.78	(-)
EN ISO 11925-2 (direct impingement of single flame method) Exposure time: 15 s A-404-BOŚ/2007/6/7K	Is the flame spread $F_S \leq 150$ mm within 20 s from the time of application?	6	(-)	COMPLIANT

(-): not applicable

4 Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-1:2007.

4.2 Classification

The product, the flooring consisting of a 12-milimetre-thick fire-resistant EUROSPAN® Flammex particleboard of class B_{fl} covered with 3 layers of top coating **Bona Mega**, in relation to its reaction to fire behaviour is classified:

B_{fl}

The additional classification in relation to smoke production is:

s1

The format of the reaction to fire classification for floorings is:

Fire behaviour		Smoke production	
B _{fl}	-	s	1

ie.: B_{fl}-s1

Reaction to fire classification: B_{fl}-s1

4.3 Field of application

This classification is valid for the following product parameters:

- total thickness: minimum 12 mm
- particleboard class: B_{fl}

(Test reports no. 35/2007 of 2 July 2007 and 36/2007 of 3 July 2007.)

The classification is valid for the following end use applications:

- The product used only on floorings or bases of fire-resistance classes A1_{fl} and A2_{fl}.
- The product used in a horizontal position with the exposed side up.
- The product used indoors.

5 Limitations

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

This document is valid provided that neither the composition nor production technology of the product are changed.

SIGNED

Jacek Pawłowski, M.Sc.



APPROVED

Dr Hanna Wróblewska,
Prof. of Wood Technology Institute

KIEROWNIK
Sekcji Badań Palności



CERTIFICATE OF COMPLIANCE



Bona

Bona Mega®

Restrictions: As applied using the BonaKemi application equipment and finish system components, following the BonaKemi floor finishing process recommendations.

UL 2818 - 2022 Standard for Chemical Emissions for Building Materials, Finishes and Furnishings

2557-410

Certificate Number

09 Dec 2005 - 10 Sep 2023

Certificate Period

Certified

Status

Flooring is determined compliant in accordance with an Office environment with an air change of 0.68 hr^{-1} and a loading of 11.10 m^2 .

Products tested in accordance with UL 2821 test method to show compliance to emission limits in UL 2818, Section 7.1.



UL investigated representative samples of the identified Product(s) to the identified Standard(s) or other requirements in accordance with the agreements and any applicable program service terms in place between UL and the Certificate Holder (collectively "Agreement"). The Certificate Holder is authorized to use the UL Mark for the identified Product(s) manufactured at the production site(s) covered by the UL Test Report, in accordance with the terms of the Agreement. This Certificate is valid for the identified dates unless there is non-compliance with the Agreement.

GREENGUARD Certification Criteria for Building Products and Interior Finishes

Criteria	CAS Number	Maximum Allowable Predicted Concentration	Units
TVOC ^(A)	-	0.50	mg/m ³
Formaldehyde	50-00-0	61.3 (50 ppb)	µg/m ³
Total Aldehydes ^(B)	-	0.10	ppm
Particle Matter less than 10 µm ^(C)	-	50	µg/m ³
4-Phenylcyclohexene	4994-16-5	6.5	µg/m ³
Individual VOCs ^(D)	-	1/10th TLV	-

- (A) Defined to be the total response of measured VOCs falling within the C₆ – C₁₆ range, with responses calibrated to a toluene surrogate. Maximum allowable predicted TVOC concentrations for GREENGUARD (0.50 mg/m³) fall in the range of 0.5 mg/m³ or less, as specified in CDPH Standard Method v1.2.
- (B) The sum of all measured normal aldehydes from formaldehyde through nonanal, plus benzaldehyde, individually calibrated to a compound specific standard. Heptanal through nonanal are measured via TD/GC/MS analysis and the remaining aldehydes are measured using HPLC/UV analysis.
- (C) Particle emission requirement only applicable to HVAC Duct Products with exposed surface area in air streams (a forced air test with specific test method) and for wood finishing (sanding) systems.
- (D) Allowable levels for chemicals not listed are derived from 1/10th of the Threshold Limit Value (TLV) industrial work place standard (Reference: American Conference of Government Industrial Hygienists, 6500 Glenway, Building D-7, and Cincinnati, OH 45211-4438).

