



The following technical datasheet is provided by Bona.

For further information please either give us a call or visit the manufacturer's website.

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Registered in England under Company No: 03746590 VAT No: 765 9995 45

Bona Mega

Technical data sheet

For offices, small shops, hotel rooms and as a premium choice for homes. Innovative, waterborne, 1-component formula, that reacts with oxygen and performs like a 2-component. No mixing required, use straight from the bottle. Also very good for plank floors and for floors with underfloor heating.

Bona Mega produces a subtle rich tone which is more noticeable on light wood species and on floors treated with a light stain or whitening primers. Overcoating Bona White primer with Bona Mega is not recommended if you are looking to achieve a true white look.

- 1K simplicity with 2K performance
- No side-bonding, ideal for underfloor heating, plank floors etc
- Dispersion mainly consisting of plant-based oil
- Excellent resistance to scuff marks and common chemicals
- GreenGuard approved for low indoor emissions



Technical data

Type of lacquer:	Waterborne 1-component oil-modified polyurethane topcoat
Solids content:	32%
VOC:	Gloss, silk matt, matt = max 60 g/litre Extra matt = max 80g/litre
Resistance to wear:	5 mg/100 revolutions (SIS 923509)
Sheen (at 60°):	Gloss 90%, Silk matt 50%, Matt 25%, Extra Matt 9%
Dilution:	If required, dilute with Bona Retarder (4%) for longer open time.
Drying time, until:	- Ready for sanding/recoating: 2½-3 hours* - Light use: 24 hours* - Full hardness: 7 days*
	<i>*under normal climate conditions, 20 °C/60% R.H.</i>
Application tools:	Bona Roller
Application rate:	8-10 m/litre (120-100g/m) per coat
Safety	Unclassified
Cleaning:	Wipe tools free from residual material before cleaning with a minimum of water. Dried material can be removed with acetone.
Shelf life:	1 year from date of production in unopened original container
Storage/transport:	The temperature must not fall below +5°C or exceed +25°C during storage and transport.
Disposal:	Wastes and emptied containers should be handled in accordance with local regulations.
Pack size:	10 x 1 litre (50 boxes per pallet) 3 x 5 litres (44 boxes per pallet)
Certifications:	GreenGuard DIBt; safe building product DIN 18032:2; approved friction for sports floors EN 13501-1; Reaction to fire EN 71-3: Application on children's toys

Preparation

Prior to application the surface must be pre-treated with a waterborne primer from Bona. Ensure floor is acclimatized to its end-use environment, well sanded, dry and free from sanding dust, oil, wax and other contamination. Allow lacquer to reach room temperature, insert filter and shake the container thoroughly before use.

Finishing



Bona[®]



Optimal application conditions are between 18-25°C and 30-60% relative air humidity. High temperatures and low humidity shorten, low temperatures and high humidity lengthen drying time. **Minimum temperature for use is 13°C.**

Treatment schedule

Untreated wood:

- 1x Bona Waterborne Primer
Light sanding grit 150
- 2x Bona Mega

Note:

- It is recommended to not apply more than two full coats per day due to increased risk of excessive wood swelling.

Application

1. Apply the lacquer using a Bona Roller. Roll with a smooth flowing motion alternately across and with the grain of the wood avoiding accumulations of product. Always maintain a “wet edge” to avoid overlaps. Allow to dry before applying further layers of lacquer. Anticipate slightly longer drying time for each layer that is applied.
2. If necessary make an intermediate sanding using a screen or the Bona Scrad System grit P150 (or finer) and remove dust before applying the final layer of lacquer. **Note:** If the previous layer of lacquer has been allowed more than 24 hours drying time then an intermediate sanding is always required.

The floor will take light foot traffic approximately 8 hours after the final application. Allow the surface to dry for at least 1 week before covering with carpets or other floor coverings, or loading with heavy objects. Also avoid damp mopping the floor during this time.

Maintenance

Clean the floor with Bona Cleaner or Bona Wood Floor Cleaner and a microfibre pad. For maintenance and upkeep of the surface, floors can be overcoated at intervals with additional coats of lacquer. The frequency of this operation can be greatly reduced if Bona Freshen Up or Bona Wood Floor Refresher is applied periodically. This will restore the appearance of a dull floor whilst still allowing further coats of lacquer to be applied without the need for sanding the floor back to bare timber.

NB: The use of adhesive tape can damage the dry lacquer.

Detailed maintenance instructions are available at www.bona.com/floorcare

The information provided is prepared to the best of our current knowledge and makes no claim to be complete. User is responsible for establishing that the product and recommendations herein are fit for the designated purpose, wood type and present situation before use. Bona can only guarantee the delivered product. A professional and thereby successful application of the product is beyond our control. If in doubt make a preliminary test. User is required to read and understand all information contained on package labels and safety data sheets before using this product.

SAFETY DATA SHEET

Bona[®]

Bona Mega

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : Bona Mega
Product description : Waterborne coating for wooden floors.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Not applicable.

1.3 Details of the supplier of the safety data sheet : Bona AB
Box 210 74
SE-200 21 MALMÖ
SWEDEN
Tel. +46-(0)40-38 55 00
e-mail address of person responsible for this SDS : Environment@bona.com

National contact : Bona Limited
6 Thornton Chase, Linford Wood
Milton Keynes, MK14 6FD
Phone 01908 525150

1.4 Emergency telephone number

Supplier

Telephone number : +46 (0)40 385500
Hours of operation : 8:00 - 16:00
Information limitations : Information in English only!

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word : No signal word.
Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.

Supplemental label elements : Contains 5-Decyne-4,7-diol, 2,4,7,9-tetramethyl-. May produce an allergic reaction.
Safety data sheet available on request.

SECTION 2: Hazards identification

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings : Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
- Eye contact** : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains 5-Decyne-4,7-diol, 2,4,7,9-tetramethyl-. May produce an allergic reaction.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Recommended: alcohol-resistant foam, CO₂, powders, water spray.

Unsuitable extinguishing media : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Hazardous thermal decomposition products : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

5.3 Advice for firefighters

Special protective actions for fire-fighters : Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

Special protective equipment for fire-fighters : Appropriate breathing apparatus may be required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections

: See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

: Avoid contact with skin and eyes. Avoid inhalation of vapour, spray or mist. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.
Put on appropriate personal protective equipment (see Section 8).
Never use pressure to empty. Container is not a pressure vessel.
Always keep in containers made from the same material as the original one.
Comply with the health and safety at work laws.
Do not allow to enter drains or watercourses.

7.2 Conditions for safe storage, including any incompatibilities

SECTION 7: Handling and storage

Store in accordance with local regulations.

Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

Additional information on storage conditions

Store in a dry, cool and well-ventilated area. Keep container tightly closed.

No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Use safety eyewear designed to protect against splash of liquids.

Skin protection

Hand protection

SECTION 8: Exposure controls/personal protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Gloves : For prolonged or repeated handling, use the following type of gloves:

Recommended: nitrile rubber

The recommendation for the type or types of glove to use when handling this product is based on information from the following source:

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Body protection : Not applicable.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Not applicable.

Environmental exposure controls : Do not allow to enter drains or watercourses.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: Liquid.
Colour	: White.
Odour	: Not available.
Odour threshold	: Not applicable.
pH	: 8
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: Not available.
Flash point	: Closed cup: >93,3°C
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not applicable.
Upper/lower flammability or explosive limits	: Not applicable.
Vapour pressure	: Not available.
Vapour density	: Not available.
Relative density	: 1,04
Solubility(ies)	: Soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/ water	: Not applicable.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not applicable.
Viscosity	: Not available.

Bona Mega

SECTION 9: Physical and chemical properties

Explosive properties : Not available.

Oxidising properties : Not available.

9.2 Other information

Solubility in water : Not available.

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition products.

10.5 Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

There are no data available on the mixture itself. The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains 5-Decyne-4,7-diol, 2,4,7,9-tetramethyl-. May produce an allergic reaction.

Acute toxicity

Conclusion/Summary : Not available.

Acute toxicity estimates

Not available.

Irritation/Corrosion

Conclusion/Summary : Not available.

Sensitisation

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

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SECTION 11: Toxicological information

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself.
Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as hazardous to the environment.

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

SECTION 13: Disposal considerations

Disposal considerations : Do not allow to enter drains or watercourses.
 Dispose of according to all federal, state and local applicable regulations.
 If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.
 For further information, contact your local waste authority.

European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

Waste code	Waste designation
08 01 12	waste paint and varnish other than those mentioned in 08 01 11

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Disposal considerations : Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.
 Empty containers must be scrapped or reconditioned.
 Dispose of containers contaminated by the product in accordance with local or national legal provisions.

Special precautions : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
 None known.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code : Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Other EU regulations

VOC : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

VOC for Ready-for-Use Mixture : 2004/42/EC - IIA/i: 140g/l (2010). <= 140g/l VOC.

Europe inventory : Not determined.

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

Industrial use : The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

International lists

National inventory

Australia : Not determined.

Canada : All components are listed or exempted.

China : Not determined.

Japan : **Japan inventory (ENCS)**: Not determined.
Japan inventory (ISHL): Not determined.

Bona Mega

SECTION 15: Regulatory information

Malaysia	: Not determined.
New Zealand	: All components are listed or exempted.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Turkey	: Not determined.
United States	: All components are listed or exempted.

15.2 Chemical safety assessment : No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

CEPE code : 7

✔ Indicates information that has changed from previously issued version.

Abbreviations and acronyms :

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

Full text of abbreviated H statements

Not applicable.

Full text of classifications [CLP/GHS]

Not applicable.

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Date of previous issue : 2018-01-31

Version : 1.03

Notice to reader

The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.

T135 -0-9



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. OCZAŁOWSKIEGO
M. OCZAŁOWSKI
MEDAL



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

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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-millimetre-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-millimetre-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.



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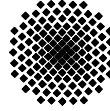
APPROVED

**Dr Hanna Wróblewska,
Prof. of Wood Technology Institute**

KIEROWNIK
Sekcji Badań Palności



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Dr Hanna Wróblewska



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

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sports facilities“
Location: Pfaffenwaldring 4 g
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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