|  |  |  |
| --- | --- | --- |
| Annex 1 to the Contract pursuant to DE-UZ 156  Blue Angel Eco-Label for  „Low-Emission Flooring Underlays“ |  | Please use this  form ! |

Manufacturer (Applicant):

full address

Brand name

Trade name

Product designation:

# 2 Scope

Flooring underlays consist of the following materials (also in mixtures):

- wood fibres

- rubber

- cork

- pulp

- polyethylene

- polystyrole

- polyurethane

The building authority approval certificate:

is enclosed herewith

has been applied for and will be handed in later

# 3.1 General Substance Requirements

Low-emission flooring underlays must not contain, as constituents[[1]](#footnote-1), any substances with the following properties:

1.) Substances that have been identified as substances of very high concern under the European Chemicals Regulation REACH (EC/1907/2006) and have been included in the list (so-called "Candidate List") set up in accordance with REACH, Article 59 (1).[[2]](#footnote-2)

2.) Substances that are classified in the following hazard classes and hazard categories under the criteria of the CLP Regulation[[3]](#footnote-3) or meet the criteria for such classification:

* carcinogenic of category Carc. 1A or Carc. 1B
* germ-cell mutagenic of category Muta. 1A or Muta. 1B
* reprotoxic of category Repr. 1A or Repr. 1B
* acutely toxic of category Acute Tox. 1, Acute Tox. 2 or Acute Tox. 3
* toxic to specific target organs of category STOT single exposure 1, or STOT repeated exposure 1

The H-Statements corresponding to the hazard classes and hazard categories can be seen from Appendix A.

3.) Substances classified in TRGS 905[[4]](#footnote-4) as:

* carcinogenic (K1, K2)
* mutagenic (M1, M2)
* reprotoxic (RF1, RF2)
* teratogenic (RE1, RE2);

4.) Substances classified in the MAK Values List[[5]](#footnote-5) as:

* carcinogenic working materials of Category 1 or Category 2
* germ-cell mutagenic working materials of Category 1 or Category 2.

The following shall be exempt from these regulations:

* Process-related, technically unavoidable impurities falling below the classification thresholds for mixtures.
* Monomers or additives which turn into polymers during the manufacture of plastics or are chemically (covalently) bound to the plastic if their residual concentrations are below the classification thresholds for mixtures.

***The above-mentioned requirements are met***

# 3.1.2 Plasticizers

No plasticizing substances of the class of phthalates or the group of   
organophosphates are used in the manufacture of flooring underlays except for

impurities < 0.1 percent by mass of phthalates

In the event of detection:

Attached hereto: content of phthalates determined by extraction of a material sample

and analysis using GC/MS.

# 3.1.3 N-Nitrosamines in Rubber Underlays

The underlays are manufactured without the use of rubber

Attached hereto is a test report on N-nitrosamines.

# 3.1.4 Recyclate Materials in Flooring Underlays

No recyclate materials are used in the manufacture

of flooring underlays

The following recyclate materials are used:

- waste wood of categories A I and A II under the German Altholzverordnung  
(Waste Wood Ordinance)

- waste paper of ordinary and kraft waste paper grades, as well as special grades

(groups 1, 4 and 5 - except for the following individual grades 1.11, 4.01, 4.05, 4.07,

4.08 and 5.09)

- rubber waste from the production of floor coverings (no post-consumer waste)

Attached hereto are details regarding the manufacturing company and a technical  
data sheet or the building authority approval of the floor covering, respectively.

- polyurethane foam waste from the production of finished PU parts

(no post-consumer waste) Attached hereto are details on finished parts, manufacturing company   
and a technical data sheet..

# 3.1.5 Use of Blowing Agents in Foam Underlays

No halogenated organic compounds are used as blowing agents   
(e.g. fluorinated hydrocarbons [H-FKW]) in the manufacture of foam underlays.

Attached hereto is the declaration from the pre-supplier (Annex 2).

# 3.1.6 Colorants

Attached hereto is the declaration from the colorant supplier (Annex 3).

# 3.1.7 Origin of Timber for Wood Fibre Underlays

All timber processed must originate from legal sources.

Moreover, a total of at least 70 percent of the wood fibres used must come from sustainably managed forests which are managed in a verifiably economically viable, environmentally sound and socially responsible way or from waste wood of categories A I and A II under the German Altholzverordnung (Waste Wood Ordinance).

Attached hereto is certificate confirming compliance with the FSC   
criteria or equivalent certification systems. A record of the timber used   
specifying the percentage of certified timber used shall also be submitted  
(Annex 2 to the Contract pursuant to DE-UZ 76)

*or*

The applicant shall present other appropriate compliance verifications as  
specified in Appendix B (Annex 3 to the Contract pursuant to DE-UZ 76).

No wood is used.

# 3.1.8 Requirements for Paper Underlays

Paper grades pursuant to Appendix 3 to the DE-UZ 156 Award Criteria used in board underlays:

Paper underlays shall be manufactured of recovered paper classified as ordinary and kraft waste paper grades or special grades (groups 1, 4 and 5).

|  |  |
| --- | --- |
| Survey A | |
| Group / Subgroups | Minimum content in weight percent |
| 1 |  |
| 4 |  |
| 5 |  |
| Total in the final product | 100 % |

The individual grades 1.11, 4.01, 4.05, 4.07, 4.08 and 5.09 are not used.

Attached hereto is one product sample per article group.

# 3.1.8.2 Chemical Auxiliaries

The only process auxiliaries used are those listed in the 36th Recommendation of BfR (Federal Institute for Risk Assessment) (positive list). The maximum quantities and concentrations specified therein are met.

The products are manufactured without using any chemical auxiliaries that contain   
glyoxal or formaldehyde as constituent or separate formaldehyde

# 3.1.8.3 Processing of Recovered Paper

The processing of recovered paper is done without using chlorine, halogenated bleaching chemicals and poorly biodegradable complexing agents as, for example, ethylenediaminetetraacetic acid (EDTA) and diethylenetriaminepentaacetic

acid (DTPA).

No optical brighteners are used.

Bleaching chemicals and complexing agents that are used in the flooring underlay:

|  |  |
| --- | --- |
| Survey B | |
| Bleaching chemicals used | Complexing agents used |
|  |  |

**3.1.8.4 Biocides and Preservatives**

Neither biocides nor preservatives are used.

|  |  |  |  |
| --- | --- | --- | --- |
|  | | | |
| Survey C | | | |
| Trade name | Quantity per  kilogram | IUPAC Designation | CAS No |
|  |  |  |  |

Neither tetramethylthiuram disulfide (CAS No 137-26-8) nor nano-silver   
(CAS No 7440-22-4) are used.

# 3.2 Use

# 3.2.1 Indoor Air Quality

-Attached hereto is a test report confirming compliance with the indoor air

requirements.

- Annual test reports sent to DIBt can be submitted upon request.

# 3.2.2 Odour Test (optional)

The applicant shall present a test report pursuant to DIN ISO 16000-28 in   
combination with VDI 4302.

# 3.2.2 Fitness for Use

The flooring underlays meet the usual quality requirements for fitness for use.

Flooring underlays for use underneath laminate floorings meet the requirements of   
DIN EN 16354.

The product meets the state-of-the-art requirements for walking noise and   
impact sound.

# 3.3 Recycling and Disposal

# 3.3.1 Halogens

With a view to future recycling and disposal, no halogenated organic compounds are   
used in the manufacture of flooring underlays (e.g. as binders, flame retardants).

In the event of detection, the content of the halogens fluorine, chlorine and bromine   
is determined by combustion analysis (total dissolution) and does **not** exceed,   
as a fraction of tolerable impurities, 1 gram per kg.

# 3.3.2 Flame Retardants

No flame retardants are used.

Only inorganic ammonium phosphates (diammonium phosphate, ammonium polyphosphate etc.), other dehydrating minerals (aluminium hydroxide or   
the like), or expandable graphite are used as flame retardants.

# 3.4 Declaration and Consumer Information

The products come with a clear manufacturer declaration providing the following   
details either on the packaging or on a label.

Alternatively, the manufacturer provides dealers with the following information for presentation to the customer upon request:

-Identification of manufacturer or supplier company,

-Product name and material,

-Product details (composition),

- Traceability information, e.g. lot/batch number,

- Colour/pattern data (if applicable),

- Building authority approval,

- Length, width and thickness or covered surface for rolls or - with respect to tiles -

tile dimensions as well as the area in square meters contained in one pack .

A short version of the following instructions and recommendations is enclosed   
with the product.

There is also a note about how to obtain a more detailed version (e.g. upon   
request to the manufacturer, reference to the manufacturer’s website).

- Installation instructions and information including recommendations for the  
use of other Blue Angel eco-labelled low-emission building products for use in floor construction (e.g. low-emission floor covering adhesives, surfacers and fillers according to DE-UZ 113, floor coverings according to DE-UZ 120, 128, 176),

- Instructions for disposing of packages and product residues (e.g. return and recycling options),

- Information on and instructions for improving sound insulation.

Attached hereto is the product information.

# 3.5 Advertising Messages

Advertising messages do not include any notes such as „non-hazardous in terms of building biology" or those which would play down risks in terms of Article 23, para. 4   
of Directive 67/548/EEC, as, for example, „non-toxic“, „non-hazardous to health".

Place:       Applicant:

Date:       (Authorized signature

and company stamp)

1. Constituents are substances or preparations added to the product or intermediate in order to achieve or influence certain product properties as well as those required as chemical decomposition products to achieve the product properties. This does not include, for example, minimised residual monomers. [↑](#footnote-ref-1)
2. The Candidate List as amended at the time of filing the application shall be applicable. For the Candidate List, as amended, please go to:

   <http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp>. [↑](#footnote-ref-2)
3. Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (or CLP for short). [↑](#footnote-ref-3)
4. TRGS 905 List of carcinogenic, mutagenic or reprotoxic substances, as amended in May 2018 and as amended from time to time. [↑](#footnote-ref-4)
5. MAK and BAT Values List, Permanent Senate Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area, as amended by Report No 53 (2017) and as amended from time to time. [↑](#footnote-ref-5)