



SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

12274-10-1000

HOYTECH PVC Flooring

Product group: Floor coverings / Wall coverings - Vinyl



Zhejiang Hoy Technology Co., Ltd.
Liuli Industrial Park, Ganpu Town
314300 Jiaying City



Product qualities:











Köttner

Helmut Köttner
Scientific Director
Freiburg, 21 April 2026



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SHI Product Assessment 2024

Since 2008, Sentinel Holding Institut GmbH (SHI) has been establishing a unique standard for products that support healthy indoor air. Experts carry out independent product assessments based on clear and transparent criteria. In addition, the independent testing company SGS regularly audits the processes and data accuracy.

Criteria	Product category	Harmful substance limit	Assessment
SHI Product Assessment	Other floor coverings	TVOC $\leq 160 \mu\text{g}/\text{m}^3$ Formaldehyd $\leq 10 \mu\text{g}/\text{m}^3$	Indoor Air Quality Certified
Valid until: 15 April 2028			



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QNG - Qualitätssiegel Nachhaltiges Gebäude

The Qualitätssiegel Nachhaltiges Gebäude (Quality Seal for Sustainable Buildings), developed by the German Federal Ministry for Housing, Urban Development and Building (BMWSB), defines requirements for the ecological, socio-cultural, and economic quality of buildings. The Sentinel Holding Institut evaluates construction products in accordance with QNG requirements for certification and awards the QNG ready label. Compliance with the QNG standard is a prerequisite for eligibility for the KfW funding programme. For certain product groups, the QNG currently has no specific requirements defined. Although classified as not assessment-relevant, these products remain suitable for QNG-certified projects.

Criteria	Pos. / product group	Considered substances	QNG assessment
3.1.3 Schadstoffvermeidung in Baumaterialien	2.2 Resilient floor coverings – including multilayer systems	VOC / Emissions / hazardous substances / polycyclic aromatic hydrocarbons (PAH) / SVHC / heavy metals	QNG ready
Verification: Technisches Datenblatt vom 27.03.2026. Eurofins Prüfbericht vom 15.04.2026 (Nr. 392-2026-00077501_A_EN)			



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DGNB New Construction 2023

The DGNB System (German Sustainable Building Council) assesses the sustainability of various types of buildings. It can be applied to both large-scale private and commercial projects as well as smaller residential buildings. The 2023 version sets high standards for ecological, economic, socio-cultural, and functional aspects throughout the entire life cycle of a building.

Criteria	Assessment
ECO1.1 Life cycle cost (*)	May positively contribute to the overall building score

Criteria	Assessment
ENV1.1 Climate action and energy (*)	May positively contribute to the overall building score

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact, 03.05.2024 (3rd edition)	7 Floor coverings (Resilient floor coverings)	VVOCs, VOC, SVOC emissions and content of hazardous substances	Quality level 3

Verification: Technisches Datenblatt vom 27.03.2026. Eurofins Prüfbericht vom 15.04.2026 (Nr. 392-2026-00077501_A_EN)

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact, 29.05.2025 (4th edition)	7 Floor coverings for indoor use (elastic floor coverings)	VVOCs, VOC, SVOC emissions and content of hazardous substances	Quality level 3

Verification: Technisches Datenblatt vom 27.03.2026. Eurofins Prüfbericht vom 15.04.2026 (Nr. 392-2026-00077501_A_EN)



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DGNB New Construction 2018

The DGNB System (German Sustainable Building Council) assesses the sustainability of various types of buildings. It can be applied to both large-scale private and commercial projects as well as smaller residential buildings.

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact	7 Floor coverings (Resilient floor coverings)	VOC / SVOC / hazardous substances	Quality level 4
Verification: Technisches Datenblatt vom 27.03.2026. Eurofins Prüfbericht vom 15.04.2026 (Nr. 392-2026-00077501_A_EN)			



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BNB-BN Neubau V2015

The Bewertungssystem Nachhaltiges Bauen (Assessment System for Sustainable Building) is a tool for evaluating public office and administrative buildings, educational facilities, laboratory buildings, and outdoor areas in Germany. The BNB was developed by the former Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB) and is now overseen by the Federal Ministry for Housing, Urban Development and Building (BMWSB).

Criteria	Pos. / product type	Considered substance group	Quality level
1.1.6 Risiken für die lokale Umwelt	2a Elastic floor coverings - with and without bonded underlay or insulation layer	VOC / hazardous substances / heavy metals	Quality level 3

Verification: Technisches Datenblatt vom 27.03.2026. Eurofins Prüfbericht vom 15.04.2026 (Nr. 392-2026-00077501_A_EN)



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EU taxonomy

The EU Taxonomy classifies economic activities and products according to their environmental impact. At the product level, the EU regulation defines clear requirements for harmful substances, formaldehyde and volatile organic compounds (VOCs). The Sentinel Holding Institut GmbH labels qualified products that meet this standard.

Criteria	Product type	Considered substances	Assessment
DNSH - Pollution prevention and control	Floor coverings (including associated adhesives and sealants)	Substances according to Annex C, formaldehyde, carcinogenic VOCs category 1A/1B	EU taxonomy compliant
Verification: Technisches Datenblatt vom 27.03.2026. Eurofins Prüfbericht vom 15.04.2026 (Nr. 392-2026-00077501_A_EN)			



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BREEAM DE Neubau 2018

BREEAM (Building Research Establishment Environmental Assessment Methodology) is a UK-based building assessment system that evaluates the sustainability of new constructions, refurbishments, and conversions. Developed by the Building Research Establishment (BRE), the system aims to assess and improve the environmental, economic, and social performance of buildings.

Criteria	Product category	Considered substances	Quality level
Hea 02 Indoor Air Quality	Flooring materials (including floor levelling compounds and resin flooring)	Emissions: Formaldehyde, TVOC, TSVOC, carcinogens	Exemplary quality

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LEED v4.1

LEED (Leadership in Energy and Environmental Design) is an internationally recognised building certification system developed by the U.S. Green Building Council. It is one of the most widely used sustainability standards for buildings worldwide and is particularly applied in internationally oriented projects. LEED assesses buildings holistically across categories such as energy efficiency, resource conservation, material selection, indoor environmental quality and site sustainability. Depending on the number of points achieved, projects are awarded one of the certification levels: LEED Certified, Silver, Gold or Platinum.

Criteria	Product category	Considered substances	Assessment
EQ Credit: Low-Emitting Materials	Bodenbeläge	Emissionen: Formaldehyd, VOC, Krebserregende Stoffe	compliant
Verification: Eurofins Prüfbericht vom 15.04.2026 (Nr. 392-2026-00077501_A_EN)			



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Product labels

In the construction industry, high-quality materials are crucial for a building's indoor air quality and sustainability. Product labels and certificates offer guidance to meet these requirements. However, the evaluation criteria of these labels vary, and it is important to carefully assess them to ensure products align with the specific needs of a construction project.



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Legal notices

(*) These criteria apply to the construction project as a whole. While individual products can positively contribute to the overall building score through proper planning, the evaluation is always conducted at the building level. The information was provided entirely by the manufacturer.

Find our criteria here: <https://www.sentinel-holding.eu/de/Themenwelten/Pr%C3%BCfverfahren/C3%BCf-kriterien%20of%20C3%BCr%20Produkte>

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HOYTECH PVC Flooring			Issue Date: 27/03/2026
No	Property	Method & Standard	Result
1	Floor Covering Type	ISO 10582	Heterogeneous PVC
2	Total Thickness	EN ISO 24346	±0.13mm
3	Wear Layer	EN ISO 24340	0.3mm/0.5mm
4	Dimensional Stability	ISO 23999	≤ 0.12%
5	Curling	ISO23999	≤ 1.2mm
6	Residual Indentation	ISO 24343-1	≤ 0.01mm
7	Light Stability	ISO 105-B02 Method 3	≥ 6
8	Castor Chair	ISO 4918	No Visible damage
9	Reaction to fire	EN 13501-1	Bfl-S1
10	Slip Resistance	DIN 51130	R10
11	Chemical Resistance	ISO 26987	Resistant
12	Squareness	ISO 24342	≤ 0.1mm
13	Straightness	ISO 24342	≤ 0.1mm
14	Click Tension Force	EN 684	≥ 125N/5cm
15	Peel Resistance	ISO 234345	≥ 75N/5cm
16	VOC emissions	AgBB/DIBt	Certified
17	REACH SVHC	REACH SVHC	< 0.10%
18	Phthalates	EN14372	< 0.10%
19	CMR 1A/1B		< 0.10%
20	Heavy Metal(Tin, Cadmium,Lead)		Do Not Contain
21	Chlorinated paraffins (SCCPs, MCCPs, LCCPs)		< 0.10%
22	CE marking	EN 14041	Certified
23	EPD	EN 15804, ISO 14025	Certified



MSDS *Material Safety Data Sheet*

Zhejiang Hoy Technology Co., Ltd.

PVC FLOORING

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MSDS Number: HY0023

Revision Date: 10/3/22

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PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

Zhejiang Hoy Technology Co., Ltd.

Liuli Industrial Park, Ganpu Town, Haiyan county

Zhejiang China

Contact Information

Info Phone Number: 86-18357303193

Emergency Phone Number: 86-18357303193

E-Mail: sales@hoy-tech.com.cn

Web: www.hoyflooring.com

Product Name: PVC FLOORING
Revision Date: 10/3/22
MSDS Number: HY0023
Common Name: PVC FLOORING
CAS Number: Applicable
EPA Number: Not Applicable
RCRA Number: Not Applicable
Chemical Family: Mixture
Chemical Formula: NA
Synonyms: NA
Internal ID: SJ0025

Product code list.
HY0023

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COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Content (WT.%)
Polyvinyl Chloride	20-30%
Chlorinated Polyethylene	1-2%
PE-WAX	0.2-5%
Acrylic ester	1-2%
Calcium Compound	62-72%
Calcium-zinc Stabilizer	1-2%
Carbon Black	0.1%-1%

MSDS *Material Safety Data Sheet*

Zhejiang Hoy Technology Co., Ltd.

PVC FLOORING

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MSDS Number: HY0023

Revision Date: 10/3/22

3 HAZARDS IDENTIFICATION

Route of Entry: Unlikely.
Target Organs: Unlikely.
Inhalation: Unlikely.
Skin Contact: Unlikely.
Eye Contact: Unlikely.
Ingestion: Unlikely.

4 FIRST AID MEASURES

Inhalation: Unlikely
Skin Contact: Unlikely
Eye Contact: Unlikely
Ingestion: Unlikely

5 FIRE FIGHTING MEASURES

Flash Point: Not Available
LEL: Not Available
UEL: Not Available

In the event of a fire, wear NIOSH approved, positive pressure, self-contained breathing apparatus (SCBA) and full protective clothing. Use dry chemical, foam, water or carbon dioxide to extinguish fire.

Decomposition gases include carbon monoxide, carbon dioxide, and hydrogen chloride gas.

6 ACCIDENTAL RELEASE MEASURES

Not Applicable

7 HANDLING AND STORAGE

Handling Precautions: Not Applicable
Storage Requirements: Not Applicable

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Not Applicable
Protective Equipment: Not Applicable
Exposure Guidelines/Other: Not Applicable

MSDS Material Safety Data Sheet

Zhejiang Hoy Technology Co., Ltd.

PVC FLOORING

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MSDS Number: HY0023

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9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	PU coating	Boiling Point:	N/A
Physical State:	Solid	Freezing/Melting Pt.:	N/A
Odor:	No	Solubility:	Insoluble
pH:	N/A	Spec Grav./Density:	APPROX 2.00
Vapor Pressure:	N/A		
Vapor Density:	N/A		

10 STABILITY AND REACTIVITY

Stability:	Stable.
Conditions to avoid:	Not applicable.
Materials to avoid (incompatibility):	Not applicable.
Hazardous Decomposition products:	Hydrogen chloride gas, carbon monoxide, carbon dioxide.
Hazardous Polymerization:	Will not occur.

11 TOXICOLOGICAL INFORMATION

No data is available on this product.

12 ECOLOGICAL INFORMATION

No data is available on this product.

13 DISPOSAL CONSIDERATIONS

Dispose in accordance with local and regulations.

14 TRANSPORT INFORMATION

Before shipment, packaging is intact or not should be checked, and ensure that pallets have no collapse, no damage during transport.

15 OTHER INFORMATION

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared.

No Warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance under any laws.

END OF MSDS DOCUMENT