

ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804+A1

Owner of the Declaration	Hilti AG
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-HIL-20200024-IAA1-EN
Issue date	28.01.2021
Valid to	27.01.2026

Hilti HIT-HY 200-A
Hilti AG

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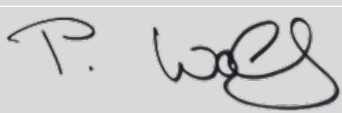



HILTI



SAFESET

1. General Information

Hilti AG Programme holder IBU – Institut Bauen und Umwelt e.V. Panoramastr. 1 10178 Berlin Germany	Hilti HIT-HY 200-A Owner of the declaration Hilti AG Feldkircher Str. 100 FL-9494 Schaan Liechtenstein						
Declaration number EPD-HIL-20200024-IAA1-EN	Declared product / declared unit The declared product is a HILTI injectable mortar HIT-HY 200-A. The declared unit is one kilogram of reaction resin product in the mixing ratio of the two components necessary for processing. The packaging is also included in the calculation. The declared unit is stated in [kg].						
This declaration is based on the product category rules: Reaction resin products, 07.2014 (PCR checked and approved by the SVR)	Scope: This document refers to the injectable mortar HIT-HY 200-A with its packaging. For the compilation of the life cycle assessment, specific data were collected from the factory in Kaufering, Germany, of the HILTI AG. Data from the year 2018 are used, which correspond to the annual average.						
Issue date 28.01.2021	The owner of the declaration shall be liable for the underlying information and evidence; the IBU shall not be liable with respect to manufacturer information, life cycle assessment data and evidences. The EPD was created according to the specifications of <i>EN 15804+A1</i> . In the following, the standard will be simplified as <i>EN 15804</i> .						
Valid to 27.01.2026	Verification <table border="1"> <tr> <td colspan="2">The standard <i>EN 15804</i> serves as the core PCR</td> </tr> <tr> <td colspan="2">Independent verification of the declaration and data according to <i>ISO 14025:2010</i></td> </tr> <tr> <td><input type="checkbox"/> internally</td> <td><input checked="" type="checkbox"/> externally</td> </tr> </table>	The standard <i>EN 15804</i> serves as the core PCR		Independent verification of the declaration and data according to <i>ISO 14025:2010</i>		<input type="checkbox"/> internally	<input checked="" type="checkbox"/> externally
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<input type="checkbox"/> internally	<input checked="" type="checkbox"/> externally						
 Dipl. Ing. Hans Peters (chairman of Institut Bauen und Umwelt e.V.)	 Patricia Wolf (Independent verifier appointed by SVR)						
 Dr. Alexander Röder (Managing Director Institut Bauen und Umwelt e.V.)							

2. Product

2.1 Product description/Product definition

The declared product of HIT-HY 200-A is a two-component system.

The resin component (component A) comprises a resin based on methacrylates as well as mineral and cement-like fillers. The curing agent component (component B) comprises of peroxide hardener, water and mineral fillers.

Mixing the two components A and B in the static mixer initiates the curing (hardening) reaction of both binder systems. During the curing phase, a very strong bond is formed between the organic and inorganic binder matrix.

The hybrid system formed during cement and resin curing results in a cross-linked duomer with desired design properties (high bond strengths within short curing time) and particular long-term stability.

Composite foils are used for the two-component foil pack of HIT-HY 200-A. This kind of packaging serves

the following purposes: waste volume reduction, easy storage and transport, less packaging material.

Through legislation and increased public awareness users have increasingly become discerned towards the use of styrene and other highly volatile components with their resulting unpleasant odor and low flash point (flammability).

The reaction resins used in all Hilti hybrid adhesives contain no styrene, are practically odorless and have a considerably higher flash point, i.e. higher than 100 °C in comparison to 34 °C for styrene-based products. HIT-HY 200 is the ultimate performance injectable hybrid short-cure mortar with approvals for rebar connections and heavy duty anchoring.

For the placing of the product on the market in the European Union *European Free Trade Association* EU/EFTA (with the exception of Switzerland) the Regulation (EU) No. 305/2011 (CPR) applies. The



product needs a declaration of performance taking into consideration the following European Technical Approvals

ETA 11/0492
ETA 11/0493
ETA 12/0006
ETA 15/0296
ETA-15/0419
ETA-15/0195
ETA 18/0837
ETA-18/0972
ETA-18/0978

and the CE-marking. For the application and use the respective national provisions apply.

2.2 Application

Hilti HIT-HY 200-A serves for safely securing of threaded rods and post-installed rebar connections in cracked and uncracked concrete C20/25 to C50/60. HIT-HY 200-A is ETA and ICC approved for seismic C1 and C2 category for anchoring and C1 category for rebar.

Rebar connections of up to 32 mm can be carried out.

Hilti HY 200-A is a component of the Hilti SAFEset concept. Hilti SAFEset is an approved system which significantly improves the robustness of fastenings and dramatically reduces the possibilities of error during installation. As part of SAFEset HIT-HY 200-A can be installed with approved Hilti Hollow Drill bits and vacuum cleaners that drill and clean the hole in one step for virtually dust-free installation. When use with Hilti HIT-Z rod as part of the SAFEset, no cleaning of the borehole is required.

2.3 Technical Data

Constructional Data

Name	Value	Unit
Density EN ISO 1183-1	1830	kg/m ³
Compressive strength (T _{cure} = 120h) EN ISO 604	94	N/mm ²
Elastic modulus (pressure) EN ISO 604	2900	N/mm ²
Tensile shear strength nach DIN EN 14293	not relevant	N/mm ²
Tensile bond strength nach DIN EN 14293	not relevant	N/mm ²

Hilti HIT-HY 200-A displays the following characteristics:

Performance data of the product in accordance with the declaration of performance with respect to its essential characteristics according to

ETA 11/0492
ETA 11/0493
ETA 12/0006
ETA 15/0296
ETA-15/0419
ETA-15/0195
ETA 18/0837
ETA-18/0972
ETA-18/0978 (European Technical Approvals)
ICC ESR-3963

ICC ESR-3187 (International Code Council Evaluation Service)

Shelf life of 12 months:

Substrate temperature during installation
-10 to +40 °C (internal method)

Working time:

-10 to -5 °C	90 min
-4 to 0 °C	50 min
+1 to +5 °C	25 min
+6 to +10 °C	15 min
+11 to +20 °C	7 min
+21 to +30 °C	4 min
+31 to +40 °C	3 min

Curing time:

-10 to -5 °C	7 h
-4 to 0 °C	4 h
+1 to +5 °C	2 h
+6 to +10 °C	75 min
+11 to +20 °C	45 min
+21 to +30 °C	30 min
+31 to +40 °C	30 min

2.4 Delivery status

The product Hilti HIT-HY 200-A is available in foil-packages with a total of 330 ml and 500 ml injectable mortar in the corresponding mixing ratio.

2.5 Base materials/Ancillary materials

Hilti HIT-HY 200-A is supplied in the form of a dual component film-wrapped pack comprising a resin component and a curing agent component at a volume ratio of 5:1. The mixing ratio of resin and curing agent components is automatically set during the injection process. Product curing commences directly after the components are mixed.

The product reviewed in this EPD contains the following component volumes:

Resin component:

Vinyl ester resin mixture: 30 to 40% by weight
Mineral fillers: 40 to 50% by weight
Cement: 10 to 20% by weight
Other: < 5% by weight

Curing agent component:

Mineral fillers: 40 to 50% by weight
Aluminium oxide: 15 to 25% by weight
Water: 15 to 25% by weight
Dibenzoyl peroxide: 10 to 15% by weight
Other: < 5% by weight

This product article contains substances listed in the candidate list (date: 28.01.2021) exceeding 0.1 percentage by mass: no

This product contains other CMR substances in categories 1A or 1B which are not on the candidate list, exceeding 0.1 percentage by mass: no

Biocide products were added to this construction product or it has been treated with biocide products (this then concerns a treated product as defined by the (EU) Ordinance on Biocide Products No. 528/2012): no

2.6 Manufacture

All raw materials are sourced from Europe. The transport is exclusively by truck.

Chemical mortars are usually two-component systems consisting of a binder and a hardener. One of the base components of the binder is the reactive resin which in the case of HIT-HY 200-A is produced in Kaufering. The resin production process is a chemical reaction of the corresponding educts to a basic resin with subsequent mixing of the basic resin with different reactive diluents to a reactive resin. This process is controlled and monitored by process control technology.

The production of chemical mortars consists of a mixing process and a filling process of the respective single components (binder and hardener) and their subsequent union to a two-component system (container). Here as well process control technology is used to weigh and mix solid and liquid compounds according to specification. In the next step both well-mixed components run through an automatized filling line in which each of the processed masses is filled into a tubular foil bag. Finally the single components are united in one container. The two-pack foil bags are packed into cardboard boxes and then finally shipped. The manufacturing plant of HIT-HY 200-A, Hilti GmbH Industriegesellschaft für Befestigungstechnik, Hiltistr. 6, 86916 Kaufering, Germany, is certified according to *ISO 9001*. The guideline defines international standards for quality and process management. The following flowcharts illustrate the underlying production process.

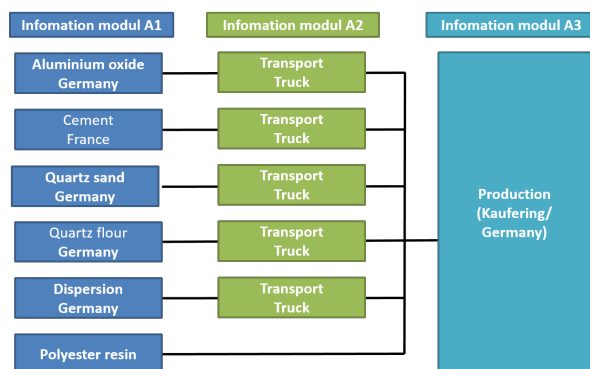


Illustration: Production process of the reaction resin mixture

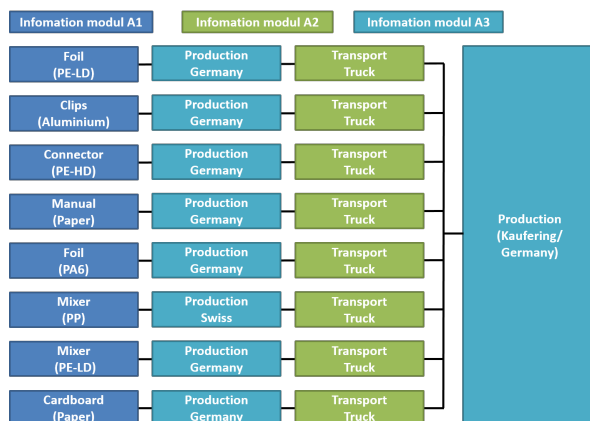


Illustration: Production process of the packaging

2.7 Environment and health during manufacturing

The manufacturing plant of HIT-HY 200-A, Hilti GmbH Industriegesellschaft für Befestigungstechnik, Hiltistr. 6, 86916 Kaufering, Germany, is certified according to *ISO 14001* which defines international standards for sustainable environmental management. The production site is also certified in accordance with *DIN EN ISO 50001* Energy Management Systems.

2.8 Product processing/Installation

The product is delivered with an Instructions for Use explaining the basic steps for installation:

- 1) For safe handling the precautionary measures described in the SDS (e.g. hand and eye protection) must be adhered to
- 2) Insert the cartridge into the red cassette
- 3) Screw on the mixing nozzle
- 4) Put the cassette into the dispenser system
- 5) Discard the first trigger pulls
- 6) Fill 2/3 of the borehole with mortar
- 7) Set the fixing element

After mixing the components and squeezing the mortar into the borehole the fixing element has to be set within the working time mentioned in the instructions for use. After the curing time, described as well in the instructions for use, the mortar is ready to take up loads.

2.9 Packaging

Hilti HIT-HY 200-A is supplied in the form of a 2-foil-pack system and thus leads to very little waste remaining after use on the construction site. After curing, the product can be disposed of with household waste. Full or only partially emptied cartridges must be disposed of as special waste in accordance with official regulations.

The outer packaging consisting of PE foil and cardboard boxes designed according to the product size can be recycled. Packaging contaminated by the product must be disposed in a safe manner in accordance with local/national regulations.

2.10 Condition of use

During the installation the temperature of the base material must be between -10°C and +40°C. The temperature of the product should be between 5 - 25 °C during storage and 0 - 40°C during usage. Hilti literature and official approvals must always be considered. The two components of HIT-HY 200A are only for use in combination with the defined volume ratio and under these conditions mentioned above to build up a cross-linked filled duromer.

2.11 Environment and health during use

Refer to the Safety Data Sheet (SDS) for detailed information on handling, storage as well as first aid, firefighting and accidental release measures and disposal considerations. Following the given instructions helps to minimize the risk for health and environment.

2.12 Reference service life

Hilti HIT-HY 200-A is exposed to a wide variety of environmental factors during the use phase. The anticipated Reference Service Life depends on the specific installation situation and the exposure

associated with the product. The main factors influencing the period of use involve weathering as well as mechanical and chemical loads.

2.13 Extraordinary effects

Fire

Even without any special fire safety features the Injection Systems comply with at least the requirements of the *DIN EN 13501-1* standard for fire classes E and Efl. As cross-linked methacrylate resins do not melt or drip, the resins do not contribute towards spreading fire. Apart from the common combustion produces carbon monoxide and carbon dioxide, fire gases can contain traces of methyl methacrylate, esters, alcohol, and hydrocarbons. Due to the quantities used, they only have a subordinate influence on the fire characteristics of a building structure in which they have been installed.

Safety in case of fire

Name	Value
Building material class	E/Efl
Burning droplets	No performance assessed
Smoke gas development	No performance assessed
Reaction to fire	Anchorage satisfy

	requirements for class A1
Resistance to fire	No performance assessed

Water

The cured product is chemically inert and insoluble in water. HIT-HY 200-A is certified for use as an anchoring adhesive in concrete for water treatment applications according to *NSF*.

Mechanical destruction

It is recommended to use dust protection during demolition of the cured chemical anchor.

2.14 Re-use phase

The product cannot be re-used. After usage the product can be removed by demolition.

2.15 Disposal

Uncured Hilti HIT-HY 200-A can be disposed according to the *European waste code* 08 04 09* or 20 01 27*. The built-in cured anchor can be disposed as construction waste for which the European waste code 17 01 01 applies.

2.16 Further information

Further information is available on request under anchor.hse@hilti.com and on the Hilti website: www.hilti.group

3. LCA: Calculation rules

3.1 Declared Unit

The declared product is a HILTI injection mortar HIT-HY 200 A. The declared unit refers to one kilogram of reaction resin product in the required mixing ratio of the two components. The packaging of 0,1242 kg is also included in the calculation. The following table shows the data of the declared unit.

Declared unit

Name	Value	Unit
Declared unit	1	kg

3.2 System boundary

Type of EPD is cradle to gate. The following information modules are defined as system boundaries in this study:

A1- A3 product stage:

- A1 Raw material supply,
- A2 Transport to the manufacturer,
- A3 Production.

In order to grasp exactly the indicators and environmental impacts of the declared unit, a total of three information modules are considered. The information modules A1 to A3 describe the material supply, the transport to the production site, as well as the production process of the product itself.

3.3 Estimates and assumptions

The electricity mixes and other background data are calculated country-specifically for the production processes. For certain datasets, assumptions were made as part of this calculation.

3.4 Cut-off criteria

All information modules considered were included in the calculation in such detail that all requirements of /EN 15804/ are met. The material consumption of the Euro pallets used for transport is less than 5% by weight due to their re-use and therefore falls below the cut-off criterion of the total calculation.

3.5 Background data

The following link documents the background data of the /GaBi 9.2 databases/ (SP 40), to which this study also refers. /Thinkstep/

3.6 Data quality

For the compilation of the life cycle assessment, specific data were collected from the factory Kaufering, in Germany, of the HILTI AG from the year 2018. The background data from the /GaBi 9.2 database/ used is from the year 2018 and thus of high relevance. The mass of the different components of the reactive resin mixture come from the information to the recipe. The data quality is classified as appropriate.

3.7 Period under review

Data from the year 2018 are used, which correspond to the annual average.

3.8 Allocation

Allocation of co-products takes place in the information modules A1-A3. The production waste of the injection-moulded components is thermally recovered. The electrical and thermal energy credits resulting therefrom are completely charged in module A3.

3.9 Comparability

Basically, a comparison or an evaluation of EPD data is only possible if all the data sets to be compared were created according to *EN 15804* and the building context, respectively the product-specific characteristics of performance, are taken into account.

The used background database has to be mentioned.
The used background database has to be mentioned.
The background data is given by GaBi 9.2 databases (SP 40), to which this study refers. *Thinkstep*

4. LCA: Scenarios and additional technical information

Since the information modules A1 to A3 are considered in this study, no information is provided on LCA scenarios and other technical information.

5. LCA: Results

DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; MND = MODULE NOT DECLARED; MNR = MODULE NOT RELEVANT)

PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES
Raw material supply	Transport	Manufacturing	Transport from the gate to the site	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	MND	MND	MND	MND	MNR	MNR	MNR	MND	MND	MND	MND	MND	MND	MND

RESULTS OF THE LCA - ENVIRONMENTAL IMPACT according to EN 15804+A1: HIT-HY 200 A / 1kg

Parameter	Unit	A1-A3
Global warming potential	[kg CO ₂ -Eq.]	1.39
Depletion potential of the stratospheric ozone layer	[kg CFC11-Eq.]	3.76E-9
Acidification potential of land and water	[kg SO ₂ -Eq.]	2.18E-3
Eutrophication potential	[kg (PO ₄) ³ -Eq.]	4.01E-4
Formation potential of tropospheric ozone photochemical oxidants	[kg ethene-Eq.]	3.94E-4
Abiotic depletion potential for non-fossil resources	[kg Sb-Eq.]	1.60E-6
Abiotic depletion potential for fossil resources	[MJ]	31.20

RESULTS OF THE LCA - RESOURCE USE according to EN 15804+A1: HIT-HY 200 A / 1kg

Parameter	Unit	A1-A3
Renewable primary energy as energy carrier	[MJ]	2.04
Renewable primary energy resources as material utilization	[MJ]	1.04
Total use of renewable primary energy resources	[MJ]	3.08
Non-renewable primary energy as energy carrier	[MJ]	22.75
Non-renewable primary energy as material utilization	[MJ]	9.54
Total use of non-renewable primary energy resources	[MJ]	32.30
Use of secondary material	[kg]	0.01
Use of renewable secondary fuels	[MJ]	0.00
Use of non-renewable secondary fuels	[MJ]	0.00
Use of net fresh water	[m ³]	6.18

RESULTS OF THE LCA – OUTPUT FLOWS AND WASTE CATEGORIES according to EN 15804+A1: HIT-HY 200 A / 1kg

Parameter	Unit	A1-A3
Hazardous waste disposed	[kg]	7.33E-8
Non-hazardous waste disposed	[kg]	2.53E-2
Radioactive waste disposed	[kg]	4.25E-4
Components for re-use	[kg]	0.00
Materials for recycling	[kg]	0.00
Materials for energy recovery	[kg]	0.00
Exported electrical energy	[MJ]	0.00
Exported thermal energy	[MJ]	0.00

All indicators are collected in accordance with *EN 15804*. The impact assessment of environmental categories is carried out according to *CML 2001 Apr. 2015*. The SM is the use of secondary material in paper production.

6. LCA: Interpretation

The dominance analysis shows that the main causes of environmental impacts and indicators can be found in the information module A1. This shows the global warming potential for the provision of material with about 90%, based on all information modules.

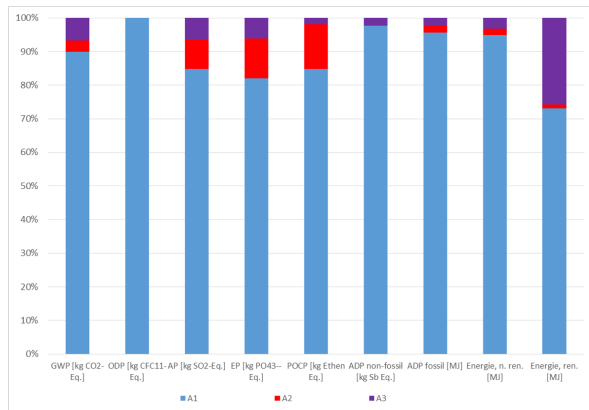


Illustration: Dominance analysis A1- A3

In the information module A1, the material supply of the reaction resin mixture causes about 84% of the global warming potential. Approx. 6% of the greenhouse gas emissions occur with PA6. Despite its low mass, aluminum has a share of about 5% in AP.

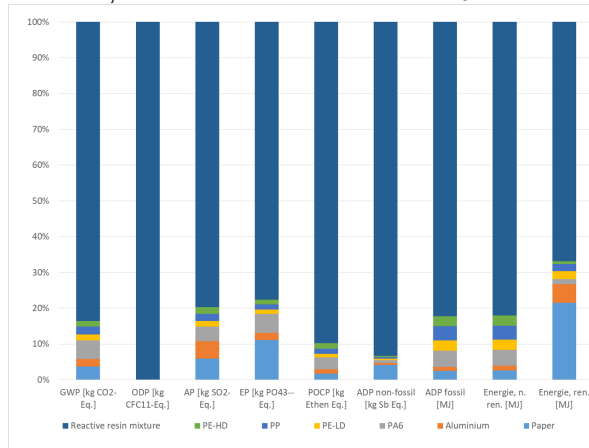


Illustration: Dominance analysis A1

Considering the material supply for the reaction resin mixture in detail, it becomes clear that two raw

materials of the reaction resin mixture contribute decisively to the respective environmental effects and indicators. The material supply of the polyester resin generates about 76% of the greenhouse gas emissions. For cement, it is about 13% greenhouse gas emissions. With aluminum oxide, it is particularly striking that almost 100% of the ODP is produced.

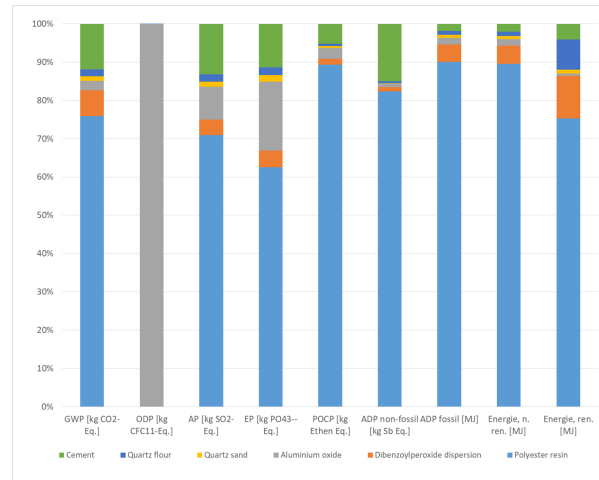


Illustration: Dominance analysis A1, reaction resin mixture

The mass of the individual components of the reaction resin mixture come from the recipe information provided by the manufacturer. According to the manufacturer, this information can be assumed to be highly accurate.

The relevant datasets used to calculate the material availability of the product are highly topical (DE: polyester resin: Thinkstep, year: 2018, EU-28: cement: source: Thinkstep, year: 2018).

Since these datasets strongly influence the results, as shown by the dominance analysis, so does the overall computation.

7. Requisite evidence

Hilti HIT-HY 200-A complies with the requirements of

- *DIBt (2010)* in combination with the NIK values from *AgBB (2015)* for applications in interior areas,
- emission class A+ outlined in the *French VOC Directives* in accordance with the *Eurofins attestation*,
- *CDPH/EHLB Standard Method V1.1/*

in accordance with *Eurofins test report, No. G03810G*, *Eurofins test report, No. G03810C* and *Eurofins test report, No. 392-2016-00118502* respectively.

DIBt/AgBB overview of results (28 days [$\mu\text{g}/\text{m}^3$])

Name	Value	Unit
TVOC (C6 - C16)	< 1000	$\mu\text{g}/\text{m}^3$
Sum SVOC (C16 - C22)	< 100	$\mu\text{g}/\text{m}^3$
R (dimensionless)	< 1	-
VOC without NIK	< 100	$\mu\text{g}/\text{m}^3$
Carcinogenic Substances	< 1	$\mu\text{g}/\text{m}^3$

AgBB overview of results (3 days [$\mu\text{g}/\text{m}^3$])

Name	Value	Unit
TVOC (C6 - C16)	< 10000	$\mu\text{g}/\text{m}^3$
Carcinogenic Substances	< 10	$\mu\text{g}/\text{m}^3$

8. References

IBU 2016

IBU (2016): General Programme Instructions for the Preparation of EPDs at the Institut Bauen und Umwelt e.V., Version 1.1 Institut Bauen und Umwelt e.V.,

Berlin.

www.ibu-epd.de

ISO 14025



DIN EN /ISO 14025:2011-10/, Environmental labels and declarations — Type III environmental declarations — Principles and procedures

EN 15804

EN 15804:2012-04+A1 2013, Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction products

AgBB (2015)

Vorgehensweise bei der gesundheitlichen Bewertung der Emissionen von flüchtigen organischen Verbindungen (VOC, VOC und SVOC) aus Bauprodukten (Februar 2015)

CDPH/EHLB/Standard Method V1.1

California CDPH Standard Method is a US standard for evaluating and restricting VOC emissions to indoor air. Developed in California as "Section 01350" Specification, several systems in the US refer to CDPH Standard Method

CML 2001 Apr. 2015

<https://www.universiteitleiden.nl/>
(05.08.2019)

DIBt (2010)

Grundsätze zur gesundheitlichen Bewertung von Bauprodukten in Innenräumen (Oktober 2010)

DIN EN 13501-1

Klassifizierung von Bauprodukten und Bauarten zu ihrem Brandverhalten

DIN EN 14293

Klebstoffe - Klebstoffe für das Kleben von Parkett auf einen Untergrund - Prüfverfahren und Mindestanforderungen

DIN EN ISO 50001

DIN EN ISO 50001: 2018 Energy management systems - Requirements with guidance for use

EN ISO 1183-1

DIN 51757:2011-01: Plastics - Methods for determining the density of non-cellular plastics - Part 1: Immersion method, liquid pycnometer method and titration method

EN ISO 604

DIN EN ISO 604:2003-12: Determination of compressive properties

Eurofins test report, No. G03810G

VOC test report for verification of compliance with DIBt(2010)/AgBB(2015) from May 2015

Eurofins test report, No. G03810C

VOC test report for verification of compliance with the French VOC directive from March 2011

Eurofins test report, No. 392-2016-00118502

VOC test report for verification of compliance with CDPH/EHLB/Standard Method V1.1 from March 2016

European Waste code

in accordance with the European Waste Catalogue (EWC) (EWC 2014/955/EU) Commission Decision amending Decision 2000/532/EC on the list of waste

pursuant to Directive 2008/98/EC of the European Parliament and of the Council

ETA 11/0492

European Technical Approval Hilti HIT-HY 200-A

ETA 11/0493

European Technical Approval Hilti HIT-HY 200-A

ETA 12/0006

European Technical Approval Hilti HIT-HY 200-A

ETA 15/0296

European Technical Approval Hilti HIT-HY 200-A

ETA 15/0419

European Technical Approval Hilti HIT-HY 200-A

ETA 15/0195

European Technical Approval Hilti HIT-HY 200-A

ETA 18/0837

European Technical Approval Hilti HIT-HY 200-A

ETA 18/0972

European Technical Approval Hilti HIT-HY 200-A

ETA 18/0978

European Technical Approval Hilti HIT-HY 200-A

French VOC Directives

Décret no 2011-321 du 23 mars 2011 relatif à l'étiquetage des produits de construction ou de revêtement de mur ou de sol et des peintures et vernis sur leurs émissions de polluants volatils

Arrêté du 19 avril 2011 relatif à l'étiquetage des produits de construction ou de revêtement de mur ou de sol et des peintures et vernis sur leurs émissions de polluants volatils

GaBi 9.2 Software Ganzheitliche Bilanzierung

<http://www.gabi-software.com/deutsch/index/>
(05.08.2020)

ICC ESR-3187

International Code Council Evaluation Service

ICC ESR-3963

International Code Council Evaluation Service

ISO 14001

ISO 14001:2015 Environmental management systems - Requirements with guidance for use

ISO 9001

ISO 9001:2015 Quality management systems - Requirements

NSF

NSF/ANSI/CAN 61 Drinking Water System Components - Health Effects

Product Category Rules, Part B

Reaction resin products, 07.2014

Thinkstep/<http://www.gabi-software.com/deutsch/index/>
(05.08.2020)



The literature referred to in the Environmental Product Declaration must be listed in full.

Standards already fully quoted in the EPD do not need to be listed here again.

The current version of PCR Part A and PCR Part B of the PCR document on which they are based must be referenced

.

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