



## BUILDING PRODUCT DECLARATION BPD 3

in compliance with the guidelines of the Ecocycle Council, June 2007

### 1 Basic data

<b>Product identification</b>		Document ID BPD_2.0_HIT-CT 1
Product name Hilti HIT-CT 1	Product no/ID designation #2140915 HIT-CT 1 330ml #2140916 HIT-CT 1 500ml	Product group 01799 /ZSE
<input type="checkbox"/> New declaration <input checked="" type="checkbox"/> Revised declaration	<b>In the case of a revised declaration</b>	
	Has the product been changed? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	The change relates to <b>recipe change</b>  Changed product can be identified by <b>new article numbers</b>
Drawn up/revised on (date) 28.04.2016		Inspected without revision on (date)
Other information:		

### 2 Supplier information

Company name Hilti Svenska AB		Company reg. no/DUNS no 556064-73-48	
Address    Box 123 232 22 Arlöv		Contact person    André Rydberg	
Website: www.hilti.se		Telephone    040 539300	
Does the company have an environmental management system?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
The company possesses certification in compliance with	<input checked="" type="checkbox"/> ISO 9000 <input checked="" type="checkbox"/> ISO 14000	<input type="checkbox"/> Other	If "other", please specify:
Other information:			

### 3 Product information

Country of final manufacture    Germany	If country cannot be stated, please state why		
Area of use    Adhesive mortar for rebar and anchor fastenings in solid concrete			
Is there a Safety Data Sheet for this product?		<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
In accordance with the regulations of the Swedish Chemicals Agency, please state:	Classification    Non hazardous	<input type="checkbox"/> Not relevant	
	Labelling    Label free		
Is the product registered in BASTA?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Has the product been eco-labelled?	<input type="checkbox"/> Criteria not found <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If "yes", please specify:	
Is there a Type III environmental declaration for the product?			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Other information:			

### 4 Contents (To add a new green row, select and copy an entire empty row and paste it in)

<b>At the time of delivery</b> , the product comprises the following parts/components, with the chemical composition stated:					
Constituent materials/components	Constituent substances	Weight % or g	EG no/ CAS no (or alloy)	Classification	Comments
<b>A-component</b>	Quartz	25-50%	14808-60-7		
	Alumina Cement	10-25%	65997-16-2 1344-28-1		

*Data in fields highlighted in green are requirements in compliance with the Ecocycle Council guidelines.*

	Methacrylate resin mixture	25-50%			confidential
	Silica	2,5-10	67762-90-7 68909-20-6		
<b>B-component</b>	Quartz	50-75%	14808-60-7		
	Water	10-25%	7732-18-5		
	Silica	0-2%	7631-86-9		
	Alumina	10-25%	1344-28-1		
	Buffer	<1%			
	Benzoyl peroxide	<1%	94-36-0		

Other information:

If the chemical composition of the product after it is built in differs from that at the time of delivery, the content of the **finished built in product** should be given here. If the content is unchanged, no data need be given in the following table.

Constituent materials/ components	Constituent substances	Weight % or g	EG no/ CAS no (or alloy)	Classification	Comments
Cured chemical anchor	Quartz	25-50%			
	Hydrated Cement	10-25%			
	Alumina	2,5-10%			
	Silica	2,5-10%			
	Cured polymethacrylate resin	25-50%			

Other information:

## 5 Production phase

**Resource utilisation and environmental impact during production of the item is reported in one of the following ways:**

- 1) Inflows (goods, intermediate goods, energy etc) for the registered product into the **manufacturing unit**, and the outflows (emissions and residual products) from it, i.e. from “gate-to-gate”.
- 2) All inflows and outflows from the extraction of raw materials to finished products i.e. “cradle-to-gate”.
- 3) Other limitation. State what:

The report relates to unit of product 1,021kg	<input checked="" type="checkbox"/> Reported product	<input type="checkbox"/> The product's product group	<input type="checkbox"/> The product's production unit
Indicate <b>raw materials and intermediate goods</b> used in the manufacture of the product			<input type="checkbox"/> Not relevant
Raw material/intermediate goods	Quantity and unit	Comments	
Aluminum	2,8 g	Part of finished product	
Paper	27,8 g	Part of finished product	
Polymer material	84,2 g	Part of finished product	
Chemical compounds	906,2 g	Part of finished product	
Water	0,08 g	Consumed during production	
Acetone	0,0002 l	Consumed during production	
Spiritus	0,0001 l	Consumed during production	
Indicate <b>recycled materials</b> used in the manufacture of the product			<input checked="" type="checkbox"/> Not relevant
Type of material	Quantity and unit	Comments	

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Enter the <b>energy</b> used in the manufacture of the product or its component parts		<input type="checkbox"/> Not relevant			
Type of energy	Quantity and unit	Comments			
Energy (net calorific value)	4,07E+01 MJ	Raw materials			
Energy reg. (net calorific value)	3,02 MJ	Raw materials			
Energy (net calorific value)	3,31 MJ	Product manufacturing			
Energy reg. (net calorific value)	1,48 MJ	Product manufacturing			
Enter the <b>transportation</b> used in the manufacture of the product or its component parts		<input type="checkbox"/> Not relevant			
Type of transportation	Proportion %	Comments			
Truck	100	2300km			
Enter the <b>emissions to air, water or soil</b> from the manufacture of the product or its component parts		<input type="checkbox"/> Not relevant			
Type of emission	Quantity and unit	Comments			
Air pollution	2,06E+02 m <sup>3</sup>	Raw materials			
Water pollution	6,42E-01 m <sup>3</sup>	Raw materials			
Air pollution	7,49 m <sup>3</sup>	Product manufacturing			
Water pollution	1,26E-0,1 m <sup>3</sup>	Product manufacturing			
Enter the <b>residual products</b> from the manufacture of the product or its component parts		<input type="checkbox"/> Not relevant			
Residual product	Waste code	Quantity	Proportion recycled		Comments
			Material recycled %	Energy recycled %	
Is there a description of the data accuracy for the manufacturing data?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: LCA_Enviromental report_Chemical_Hilti_CT1_02		
Other information:					

## 6 Distribution of finished product

Does the supplier put into practice a system for returning load carriers for the product?	<input checked="" type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Does the supplier put into practice any systems involving multi-use packaging for the product?	<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Does the supplier take back packaging for the product?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is the supplier affiliated to REPA?	<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Other information: Hilti HIT uses a unique dispenser with refill system (cassette & foil pack) to minimize packaging waste			

## 7 Construction phase

Are there any special requirements for the product during storage?	<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: cool, dry and dark between 5°C – 25°C
Are there any special requirements for adjacent building products because of this product?	<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: base material temp. -5 - +40°C during installation
Other information:				

## 8 Usage phase

Does the product involve any special requirements for intermediate goods regarding operation and maintenance?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If "yes", please specify:
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Does the product have any special energy supply requirements for operation?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If "yes", please specify:			
Estimated technical service life for the product is to be entered according to one of the following options, a) or b):						
a) Reference service life estimated as being approx.	<input type="checkbox"/> 5 years	<input type="checkbox"/> 10 years	<input type="checkbox"/> 15 years	<input type="checkbox"/> 25 years	<input checked="" type="checkbox"/> >50 years	Comments
b) Reference service life estimated to be in the interval of _____ years						
Other information:						

## 9 Demolition

Is the product ready for disassembly (taking apart)?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If "yes", please specify:
Does the product require any special measures to protect health and environment during demolition/disassembly?	<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: Use dust protection during demolition of cured chemical anchor
Other information: Cured chemical anchor behaves like concrete base material in terms of dust formation during demolition				

## 10 Waste management

Is it possible to re-use all or parts of the product?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If "yes", please specify:
Is it possible to recycle materials for all or parts of the product?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: Outer packaging foil (PA/PE) and IFU (paper) can be recycled
Is it possible to recycle energy for all or parts of the product?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: Packaging waste (used mixer, foilpack, connector) suitable for thermal recycling
Does the supplier have any restrictions and recommendations for re-use, materials or energy recycling or waste disposal?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If "yes", please specify:
Enter the waste code for the <b>supplied</b> product 08 04 10				
Is the <b>supplied</b> product classed as hazardous waste?			<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
If the chemical composition of the product differs after having been built in from that which it had at the time of delivery, meaning that another waste code is given to the finished <b>built in</b> product, then this should be entered here. If it is unchanged, the following details can be omitted.				
Enter the waste code for the <b>built in</b> product 17 01 01				
Is the <b>built in</b> product classed as hazardous waste?			<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Other information:				

## 11 Indoor environment (To add a new green row, select and copy an entire empty row and paste it in)

When used as intended, the product gives off the following emissions:			<input type="checkbox"/> The product does not have any emissions	
Type of emission	Quantity [ $\mu\text{g}/\text{m}^2\text{h}$ ] or [ $\text{mg}/\text{m}^3\text{h}$ ]		Method of measurement	Comments
	4 weeks	26 weeks		
TVOC	< 0,005 mg/m <sup>3</sup>	-	Chamber method	Method complies to AgBB/DIBt protocol; no 26

				weeks measurement required
VVOC	< 0,005 mg/m <sup>3</sup>	-	Chamber method	see TVOC
SVOC	< 0,005 mg/m <sup>3</sup>	-	Chamber method	see TVOC
Carcinogens	< 0,001 mg/m <sup>3</sup>	-	Chamber method	see TVOC
Formaldehyde	< 0,003 mg/m <sup>3</sup>	-	Chamber method	see TVOC
Acetaldehyde	< 0,003 mg/m <sup>3</sup>	-	Chamber method	see TVOC
C <sub>3</sub> -C <sub>6</sub> Aldehydes	< 0,003 mg/m <sup>3</sup>	-	Chamber method	see TVOC
Can the product itself give rise to any noise?			<input checked="" type="checkbox"/> Not relevant	<input type="checkbox"/> Yes <input type="checkbox"/> No
Value	Unit	Method of measurement		
Can the product give rise to electrical fields?			<input checked="" type="checkbox"/> Not relevant	<input type="checkbox"/> Yes <input type="checkbox"/> No
Value	Unit	Method of measurement		
Can the product give rise to magnetic fields?			<input checked="" type="checkbox"/> Not relevant	<input type="checkbox"/> Yes <input type="checkbox"/> No
Value	Unit	Method of measurement		
Other information: HILTI HIT-CT 1 complies with the requirements of DIBt (October 2010) and AgBB (February 2015) for use in the indoor environment (#392-2016-00125701)				

## References

## Appendices