



## 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 2016_HIT-MM PLUS
Product name Hilti HIT-MM PLUS Injekteringsmassa	Product no/ID designation All sizes	Product group ZSE/01799
<input checked="" type="checkbox"/> New declaration <input type="checkbox"/> Revised declaration	<b>In the case of a revised declaration</b>	
	Has the product been changed? <input type="checkbox"/> No <input type="checkbox"/> Yes	The change relates to
	Changed product can be identified by	
Drawn up/revised on (date) 2016-06-01		Inspected without revision on (date)
Other information:		

### 2 Supplier information

Company name Hilti Svenska AB		Company reg. no/DUNS no 556064-7348	
Address Box 123 232 22 Arlöv, Sweden		Contact person	
		Telephone 040 539300	
Website: www.hilti.se		E-mail info@se.hilti.com	
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	Wide range of fastening applications in the medium load range in hollow block, solid block and concrete where no approval is required			
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	<input type="checkbox"/> Not relevant Xi, O R36/38, R43; R7 Labelling Xi, O R36/38, R43; R7; S3, S24/25, S26, S28, S36/37/39, contains: dibenzoyl peroxide, methacrylic acid, monoester with propane-1,2-diol		
Is the product registered in BASTA?	<input type="checkbox"/> Yes		<input checked="" 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 type="checkbox"/> No	
Other information:				

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

At the time of delivery, the product comprises the following parts/components, with the chemical composition stated:					
Constituent materials/	Constituent	Weight	EG no/ CAS no	Classifi-	Comments
<i>Data in fields highlighted in green are requirements in compliance with the Ecocycle Council guidelines.</i>					

components	substances	% or g	(or alloy)	cation	
A-component	Quartz	25-50%	14808-60-7	Xi; R36, R43, R52/53	
	Alumina Cement	10-25%	65997-16-2, 1344-28-1		
	Methacrylate resin mixture	25-50%			
	Silica	2,5-5%	67762-90-7		
	Pigment	< 0,1%			
B-component	Quartz	50–75%	14808-60-7	E; R3 R7 Xi; R36 R43	
	Silica	2,5-5%	7631-86-9		
	Water	25-50%	7732-18-5		
	Benzoyl peroxide	5–10%	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%			
	Silica	2,5-5%			
	Cured Poly-methacrylate resin	30-40%			
	Pigment	< 0,1%			

Other information:

## 5 Production phase

<b>Resource utilisation and environmental impact during production of the item is reported in one of the following ways:</b>			
<input type="checkbox"/> 1) Inflows (goods, intermediate goods, energy etc) for the registered product into the <b>manufacturing unit</b> , and the outflows (emissions and residual products) from it, i.e. from “gate-to-gate”.			
<input type="checkbox"/> 2) All inflows and outflows from the extraction of raw materials to finished products i.e. “cradle-to-gate”.			
<input checked="" type="checkbox"/> 3) Other limitation. State what: <b>cradle-to-grave</b>			
The report relates to unit of product 1kg	<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	3g		
Polymer	90 g		
Paper	30 g		

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Chemical components	877 g				
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		
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 (heat of combustion)	38 MJ		Raw materials		
Energy reg. (heat of combustion)	2,1 MJ		Raw materials		
Energy (heat of combustion)	1,6 MJ		Product manufacturing		
Energy reg. (heat of combustion)	0,1 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		
Sea	78		16800km; 0,3kg		
Truck	22		4716km; 0,7kg		
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		
Global warming potential (GWP 100years)	2,4 kg CO <sub>2</sub> -Equiv.		Raw materials		
Acidification potential (AP)	9,1·10 <sup>-3</sup> kg SO <sub>2</sub> Equiv.		Raw materials		
Ozone depletion potential (ODP, catalytic)	3,1·10 <sup>-7</sup> kg R11 Equiv.		Raw materials		
Photochemical Ozone creation pot. (POCP)	9,7·10 <sup>-4</sup> kg Ethen-Equiv.		Raw materials		
Global warming potential (GWP 100years)	1,2·10 <sup>-1</sup> kg CO <sub>2</sub> -Equiv.		Product manufacturing		
Acidification potential (AP)	5,6·10 <sup>-4</sup> kg SO <sub>2</sub> Equiv.		Product manufacturing		
Ozone depletion potential (ODP, catalytic)	1,7·10 <sup>-8</sup> kg R <sub>11</sub> Equiv.		Product manufacturing		
Photochemical Ozone creation pot. (POCP)	3,0·10 <sup>-5</sup> kg Ethen-Equiv.		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 %	
Dangereous waste		2,30·10 <sup>-2</sup> kg			Raw materials
Inert waste		2,10 kg			Raw materials
Radioactive waste		1,2·10 <sup>-3</sup> kg			Raw materials
Nonhazardous waste		2,10·10 <sup>-2</sup> kg			Raw materials
Dangereous waste		2,30·10 <sup>-3</sup> kg			Product manufacturing
Inert waste		2,7·10 <sup>-1</sup> kg			Product manufacturing
Radioactive waste		2,10·10 <sup>-4</sup> kg			Product manufacturing
Nonhazardous waste		1,00·10 <sup>-7</sup> kg			Product manufacturing
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: Details see "Life Cycle Assessment report Hilti HIT-MM PLUS"		
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, 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: during installation: base material temp. 0°C- +40°C, product temp. +5°C - +40°C
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:			
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 or brick 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 checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: Outer packaging foil (PE) and IFU (paper) can be recycled
Is it possible to recycle energy for all or parts	<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify:

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of the product?				Packaging waste (used mixer, empty 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 09				
Is the <b>supplied</b> product classed as hazardous waste?			<input checked="" type="checkbox"/> Yes	<input 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: Empty packs may be disposed via local Green Dot collecting system				

## 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 HFX complies with the requirements of DIBt (October 2008) and AgBB (May 2010) for use in the indoor environment				

## References

## Appendices