



BUILDING PRODUCT DECLARATION BPD 3

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

1 Basic data

Product identification		Document ID: HIT-RE 500 V3
Product name Hilti RE 500 V3 Injekteringsmassa	Product no/ID designation all sizes	Product group 01799/ ZSE
<input checked="" type="checkbox"/> New declaration <input type="checkbox"/> Revised declaration	In the case of a revised declaration	
	Has the product been changed?	The change relates to
	<input type="checkbox"/> No <input type="checkbox"/> Yes	Changed product can be identified by
Drawn up/revised on (date) 2016-07-01		Inspected without revision on (date)

Other information:

2 Supplier information

Company name Hilti Svenska AB	Company reg. no/DUNS no 556064-7348		
Address Testvägen 1 232 37 Arlöv	Contact person	Isabella Lantz	
	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 Adhesive mortar for rebar and anchor fastenings in uncracked and cracked 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 Skin Corr 1 A; H314 Skin Sens 1; H317 SOT SE 3; H335 Aquatic Chronic 2; H411 Labelling	<input type="checkbox"/> Not relevant	

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

Signal word: Danger Contains: Epoxy resin, Amines GHS05, GHS07, GHS09 H314, H317, H335, H411 P280, P262, P305+P351+P338, P333+P313, P337+P313, P302+P352	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is the product registered in BASTA?		

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)

At the time of delivery, 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
Component A	Bisphenol-A-Epichlorhydrin Epoxy resin Average MW <700	25-40	25068-38-6	Skin Irrit. 2, H315 Eye Irrit. 2 H319 Skin Sens. 1; H317 Aquatic Chronic 2, H411	
	Bisphenol-F-Epichlorhydrin Epoxy resin Average MW <700	10-25	9003-36-5	Skin Irrit. 2, H315 Eye Irrit. 2 H319 Skin Sens. 1; H317 Aquatic Chronic 2, H411	
	Butanedioldiglycidyl ether	5-10	2425-79-8	Acute Tox. 4; H302 Acute Tox. 4, H312 Acute Tox. 4 H332 Skin Irrit. 2;H315 Eye Dam. 1;H318 Skin Sens. 1;H317 Aquatic Chronic 3;H412	
	Trimethylolpropantriglycidyl ether	5-10	30499-70-8	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 3;H412	
			2,5-5	2530-83-8	Eye Dam. 1;H318

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	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	25-50	14808-60-7	-	
	Quartz	1-5	67762-90-7	-	
	Silica				

Component B	2-methyl-1,5-pentanediamine	25-40	15520-10-2	Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Corr. 1A;H314 Eye Dam. 1;H318 STOT SE 3;H335 Acute Tox. 4, H312	
	Phenol, styrenated	5-10	61788-44-1	Skin Irrit. 2;H315 Eye Irrit. 2;H319 Skin Sens. 1;H317 Aquatic Chronic 2;H411	
	m-Xylylenediamine	5-<8	1477-55-0	Acute Tox. 4 (Oral);H302 Acute Tox. 4; H312 Acute Tox. 4; H332 Skin Corr. 1B;H314 Skin Sens. 1B;H317 Aquatic Chronic 3;H412	
	2,4,6-tris(dimethylaminomethyl)phenol	1-2,5	90-72-2	Skin Corr. 1B;H314 Eye Irrit. 2;H319 Skin Sens. 1B;H317 Aquatic Chronic 3;H412	
	3-Aminopropyltriethoxysilane	1,2,5	919-30-2	Acute Tox. 4 (Oral);H302 Skin Corr. 1B;H314	
	Quartz	15-30	14808-60-7	-	
	Cement	10-20	65997-16-2 /1344-28-1	-	

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	Silica	1-5	67762-90-7	-	
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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	25-40	14808-60-7	-	
	Cured epoxy resin	50-75	-	-	
	Cement	1-5	65997-16-2 / 1344-28-1	-	
	Silica	1-5	67762-90-7	-	
Other information:					

5 Production phase

Resource utilisation and environmental impact during production of the item is reported in one of the following ways:			
<input type="checkbox"/> 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”.			
<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: ‘cradle-to-grave’			
The report relates to unit of product 330ml / 545g	<input type="checkbox"/> Reported product	<input type="checkbox"/> The product’s product group	<input type="checkbox"/> The product’s production unit
Indicate raw materials and intermediate goods used in the manufacture of the product		<input type="checkbox"/> Not relevant	
Raw material/intermediate goods	Quantity and unit	Comments	
Aluminium	0,30 %		
Polymers	9,01 %		
Paper	2,97 %		
Chemical substances	87,72 %		
Indicate recycled materials used in the manufacture of the product		<input checked="" type="checkbox"/> Not relevant	
Type of material	Quantity and unit	Comments	
Enter the energy 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)	4,25E+01 MJ	Raw materials	
Energy ren. (net calorific value)	3,15E+00 MJ	Raw materials	
Energy (net calorific value)	1,59E+00 MJ	Product manufacturing	
Energy ren. (net calorific value)	3,17E+00 MJ	Product manufacturing	
Enter the transportation used in the manufacture of the product or its component parts		<input type="checkbox"/> Not relevant	
Type of transportation	Proportion %	Comments	

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Truck	100%/2300km		Scenario 2 within the EU		
Enter the emissions to air, water or soil from the manufacture of the product or its component parts				<input type="checkbox"/> Not relevant	
Type of emission	Quantity and unit		Comments		
Air pollution	1,97E+02 m ³		Raw materials		
Water pollution	9,48E+00 m ³		Raw materials		
Air pollution	3,90E-00 m ³		Product manufacturing		
Water pollution	3,83E-02 m ³		Product manufacturing		
Enter the residual products 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		3,40E-03 kg			Raw materials
Inert waste		2,72E-01 kg			Raw materials
Radioactive waste		6,87E-05 kg			Raw materials
Hazard-free waste		3,37E-02 kg			Raw materials
Dangereous waste		0,00E+00 kg			Product manufacturing
Inert waste		3,55E-01 kg			Product manufacturing
Radioactive waste		2,23E-04 kg			Product manufacturing
Hazard-free waste		9,91E-04 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: LCA_Environmental report_Chemical_HILTI_HIT RE500_V3.docx		

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 type="checkbox"/> Yes	<input checked="" 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 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 type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: base material temp. -5°C - +40°C during installation

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

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 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 of the product?	<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: Packaging waste (used mixer, empty foil pack, 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 supplied product 08 04 09 / 20 01 27				
Is the supplied 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 **built in** product, then this should be entered here. If it is unchanged, the following details can be omitted.

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Enter the waste code for the built in product 17 01 01		
Is the built in 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 ³		Chaber method	Method complies to AgBB/DiBt protocol; no 26 weeks measurement required

VVOC	< 0,005 mg/m ³		Chamber method	see TVOC
SVOC	< 0,005 mg/m ³		Chamber method	see TVOC
Carcinogens	< 0,001 mg/m ³		Chamber method	see TVOC
Formaldehyde	< 0,003 mg/m ³		Chamber method	see TVOC
Acetaldehyde	< 0,003 mg/m ³		Chamber method	see TVOC
C ₃ -C ₆ Aldehydes	< 0,003 mg/m ³		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-RE 500 V3 complies with the requirements of DiBt (October 2010) and AgBB (February 2015) for use in the indoor environment (Report 392-2013-00087602A)				

References

Appendices