

Product Verification Sustainability

Product Systems

WIT-VM 250

Adolf Würth GmbH & Co. KG

The Würth Injection system WIT-VM 250 for concrete is a bonded anchor consisting of a cartridge with Würth injection mortar WIT-VM 250 and a steel element. The steel elements are commercial threaded rods in the range of M8 to M30 or reinforcing bar in the range of diameter 8 to 32 mm. The steel element is placed inta a drilled hole filled with injection mortar and is anchored via the bond between metal part, injection mortar and concrete. The system is a postinstalled connection, by anchoring or overlap connection joint, of reinforcing bars (rebars) in existing structures made of normal weight concrete, using the "Würth Injection system WIT-VM 250 for rebar connection" in accordance with the regulations for reinforced concrete construction. Reinforcing bars made of steel with a diameter ds from 8 to 25 mm and Würth injection mortar WIT-VM 250 are used for rebar connections. The rebar is placed into a drilled hole filled with injection mortar and is anchored via the bond between rebar, injection mortar and concrete.







Contact Details Manufacture

Adolf Würth GmbH & Co. KG

Reinhold-Würth-Str. 12-17 74653 Künzelsau DE http://www.wuerth.com/



Disclaime

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Product Verification

Sustainability

Self declared according to LEED Building Design and Construction V3 (2009)

Product Systems

WIT-VM 250

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The Würth Injection system WIT-VM 250 for concrete is a bonded anchor consisting of a cartridge with Würth injection mortar WIT-VM 250 and a steel element. The steel elements are commercial threaded rods in the range of M8 to M30 or reinforcing bar in the range of diameter 8 to 32 mm. The steel element is placed inta a drilled hole filled with injection mortar and is anchored via the bond between metal part, injection mortar and concrete. The system is a postinstalled connection, by anchoring or overlap connection joint, of reinforcing bars (rebars) in existing structures made of normal weight concrete, using the "Würth Injection system WIT-VM 250 for rebar connection" in accordance with the regulations for reinforced concrete construction. Reinforcing bars made of steel with a diameter ds from 8 to 25 mm and Würth injection mortar WIT-VM 250 are used for rebar connections. The rebar is placed into a drilled hole filled with injection mortar and is anchored via the bond between rebar, injection mortar and concrete.

Product Assessment

Materials & Resources

Criteria	Product Verification
MR Credit 4: Recycled Content	o %
MR Credit 5: Regional Materials	No
MR Credit 6: Rapidly Renewable Materials	o %
MR Credit 7: Certified Wood	N/A

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Indoor Environmental Quality

Criteria	Product Verification
IEQ Credit 4.1: Low Emitting Materials: Adhesives and Sealants	Yes
IEQ Credit 4.2: Low Emitting Materials: Paints and Coatings	N/A
IEQ Credit 4.3: Low Emitting Materials: Flooring Systems	N/A
IEQ Credit 4.4: Low Emitting Materials: Composite Wood and Agrifiber Products	5 N/A

Legend: yes = Product contributes toward satisfying the credit, N/A = Product not relevant in the credit, no = Credit requirements are not proven

Summary

The product contributes to the certification:

- Creditable recycled content according to LEED for the entire product: 0 %
- Information for MR Credit 5: Regional Materials is available (points can be achieved if the product has been extracted, harvested or recovered, as well as manufactured, within 500 miles/800 km of the project site): No
- Content of rapidly renewable materials for the entire product: 0 %
- The entire product contributes toward satisfying IEQ Credit 4.1: Low Emitting Materials: Adhesives and Sealants: Yes



System description

The American LEED (Leadership in Energy and Environmental Design) certification system was published by the USGBC (U.S. Green Building Council) in the late 1990s. The LEED system can be used internationally for all buildings, regardless of whether it is a new building, refurbishment or existing building. In LEED v3 a total of seven environmental categories with different credits are considered, in which up to 110 points can be collected. The LEED levels of certification which can be achieved are Certified, Silver, Gold and Platinum. Up to now, more than 92,000 LEED projects have been registered in 167 countries, of which 39,000 have already achieved a certificate (as of October 2017).

Source: www.usgbc.org

System categories



Source: LEED 2009 - New Construction



Detailed Verification

Self declared according to LEED Building Design and Construction V3 (2009)

Materials & Resources

MR Credit 4: Recycled Content

WIT-VM 250	o %
Postconsumer recycled content for the entire p	product:
WIT-VM 250	0 %
	the entire product? Otherwise it will be automatically calculated from
	nts for your product, we recommend that you enter the recycling
percentage for the entire product here:	
WIT-VM 250	Yes
Postconsumer recycled content of product (cre	editable):
WIT-VM 250	0 %
Recycled content post-consumer:	
WIT-VM 250	o wt%
Postconsumer recycled content for steel accord	ding to LEED:
-	ding to LEED:
Postconsumer recycled content for steel accord WIT-VM 250	
WIT-VM 250	
WIT-VM 250 The product is made of steel:	0%
WIT-VM 250	
WIT-VM 250 The product is made of steel: WIT-VM 250	0%
WIT-VM 250 The product is made of steel: WIT-VM 250 Recycled content pre-consumer:	0 % No
WIT-VM 250 The product is made of steel: WIT-VM 250	0%
WIT-VM 250 The product is made of steel: WIT-VM 250 Recycled content pre-consumer: WIT-VM 250	0 % No 0 wt%
WIT-VM 250 The product is made of steel: WIT-VM 250 Recycled content pre-consumer: WIT-VM 250 Preconsumer recycled content for the entire pr	o % No o wt% roduct:
WIT-VM 250 The product is made of steel: WIT-VM 250 Recycled content pre-consumer:	0 % No 0 wt%
WIT-VM 250 The product is made of steel: WIT-VM 250 Recycled content pre-consumer: WIT-VM 250 Preconsumer recycled content for the entire pr	o % No o wt% roduct:

extracted, harvested or recovered, as well as manufactured, within 500 miles/800 km of the project site):

WIT-VM 250	No



Place of raw material extraction (e.g D-70563 Stuttgart):	:
WIT-VM 250	No Information
Place of manufacture (a.g. D. 70562 Stuttgart)	
Place of manufacture (e.g. D-70563 Stuttgart):	No Information
WIT-VM 250	
The distance between place of raw material extraction a	and manufacture is less than 500 miles/800 km:
WIT-VM 250	No
· · ·	
Credit 6: Rapidly Renewable Materials	
Content of rapidly renewable materials for the entire pro-	oduct:
WIT-VM 250	o %
Do you want to enter the content of rapidly renewable automatically calculated from the components. If you de recommend that you enter the content of rapidly renew	o not have any components for your product, we
WIT-VM 250	Yes
Content of rapidly renewable materials for the product:	
WIT-VM 250	0 %
Credit 7: Certified Wood	
Content of FSC-certified wood-based materials in the end	ntire product:
WIT-VM 250	N/A
The product is a wood-based material or is partially ma	de of wood:
WIT-VM 250	No
oor Environmental Quality	
Credit 4.1: Low Emitting Materials: Adhesives and	Sealants
oreant 4. T. Eow Emitting Materialo. Adheoree and	
The entire product contributes toward satisfying IEQ Cre	edit 4.1: Low Emitting Materials: Adhesives and Sealants:
WIT-VM 250	Yes
The product contributes toward satisfying IEQ Credit 4.	1: Low Emitting Materials: Adhesives and Sealants:
WIT-VM 250	Yes
The product is an adhesive or sealant:	
WIT-VM 250	Yes
The adhesive or sealant is wet applied on the constructi	on site:
WIT-VM 250	Yes



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WIT-VM 250	Multipurpose construction adhesives
VOC limit (adhesives & sealants) according to LEED v3	- Limit:
WIT-VM 250	70
VOC limit (adhesives & sealants) according to LEED v3	
WIT-VM 250	g/l
VOC Limit (adhesives & sealants) according to LEED v3	- Standard:
WIT-VM 250	SCAQMD Rule 1168 (effective date of July 1, 2005 and
	rule amendment date of January 7, 2005)
VOC content of product (less water):	
WIT-VM 250	56 g/l
Credit 4.2: Low Emitting Materials: Paints and Coa	tings
The entire product contributes toward satisfying IEQ Cr	edit 4.2: Low Emitting Materials: Paints and Coatings:
WIT-VM 250	N/A
WIT-VM 250	N/A
· · · ·	
WIT-VM 250 Credit 4.3: Low Emitting Materials: Flooring Syster	
Credit 4.3: Low Emitting Materials: Flooring Syster	ms
Credit 4.3: Low Emitting Materials: Flooring Syster The entire product contributes toward satisfying IEQ Cr	ns redit 4.3: Low Emitting Materials: Flooring Systems:
Credit 4.3: Low Emitting Materials: Flooring Syster	ms
Credit 4.3: Low Emitting Materials: Flooring Syster The entire product contributes toward satisfying IEQ Cr WIT-VM 250	ns redit 4.3: Low Emitting Materials: Flooring Systems: N/A
Credit 4.3: Low Emitting Materials: Flooring Syster The entire product contributes toward satisfying IEQ Cr	ns redit 4.3: Low Emitting Materials: Flooring Systems: N/A
Credit 4.3: Low Emitting Materials: Flooring Syster The entire product contributes toward satisfying IEQ Cr WIT-VM 250 Credit 4.4: Low Emitting Materials: Composite Wo	ns redit 4.3: Low Emitting Materials: Flooring Systems: N/A od and Agrifiber Products
Credit 4.3: Low Emitting Materials: Flooring Syster The entire product contributes toward satisfying IEQ Cr WIT-VM 250	ns redit 4.3: Low Emitting Materials: Flooring Systems: N/A od and Agrifiber Products



Contact Details Manufacturer

Adolf Würth GmbH & Co. KG

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Product Verification

Sustainability

Self declared according to DGNB NBV 2015

Product Systems

WIT-VM 250

Adolf Würth GmbH & Co. KG

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Product Assessment

Environmental Quality (ENV)

Criteria	Product Verification
ENV 1.1/2.1 Life cycle assessment (Updated on: 26.01.2017)	EPD available: No
ENV 1.2 Local environmental impact (Updated on: 08.06.2017)	Quality level 4 of 4

Legend: yes = Product contributes toward satisfying the credit, N/A = Product not relevant in the credit, no = Credit requirements are not proven

WüRTH



Summary

The product contributes to the certification:

- The product has an Environmental Product Declaration (EPD), which can be used to calculate the building life cycle assessment (ENV1.1/2.1): EPD available: No
- Achieved quality level in DGNB Criteria ENV 1.2 Local environmental impact for the entire product: Quality level 4 of 4



System description

The DGNB certification system was founded by the "German Sustainable Building Council" and first appeared on the market in 2008. The DGNB system evaluates buildings holistically on the basis of individual criteria within the categories Ecological Quality, Economic Quality, Sociocultural and Functional Quality, Technical Quality, Process Quality and Location Quality. Different profiles allow the certification of new buildings and existing buildings, as well as of quarters in Germany and Internationally. Buildings can achieve a certification in Bronze, Silver, Gold and Platinum. Up to now, more than 3,500 projects have been awarded by the DGNB (as of June 2018).

Source: www.dgnb.de

System categories





Detailed Verification

Self declared according to DGNB NBV 2015

Environmental Quality (ENV)

ENV 1.1/2.1 Life cycle assessment (Updated on: 26.01.2017)

The product has an Environmental Product Declaration (EPD), which can be used to calculate the building life cycle assessment (ENV1.1/2.1):

WIT-VM 250	EPD available: No
An environmental product declaration exists for the product:	

No

WIT-VM 250

ENV 1.2 Local environmental impact (Updated on: 08.06.2017)

Achieved quality level in DGNB Criteria ENV 1.2 Local environmental impact for the entire product:

WIT-VM 250	Quality level 4 of 4
Achieved quality level in DGNB Criterion ENV 1.2 Local environm	ental impact:
WIT-VM 250	Quality level 4

The product does not fall under any of the above listed product groups according to DGNB ENV 1.2

The entire product does not fall under a DGNB NBV 15 requirement in ENV 1.2 Local environmental impact. The product helps to achieve the following quality level:

WIT-VM 250	Quality level 4

The product does not fall under a DGNB NBV 15 requirement in ENV 1.2 Local environmental impact. The product helps to achieve the following quality level:

WIT-VM 250	Quality level 4

The product does not fall under any of the above listed product groups or the relevant product group is evaluated on the components:

Yes

WIT-VM 250	
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Contact Details Manufacturer

Adolf Würth GmbH & Co. KG

Reinhold-Würth-Str. 12-17 74653 Künzelsau DE http://www.wuerth.com/



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This verification is the evaluation and ranking of products in terms of the certification system DGNB 2015 (New construction of office buildings). The DGNB (Deutsche Gesellschaft für Nachhaltiges Bauen) generally does not certify products. Therefore the project team or the manufacturer is responsible to declare compliance with respect to the DGNB criteria. Notice: This verification is generated by the Assessment Service of BMS. The distribution or publication by third parties is not permitted. The data sheet is not a DGNB certification document. The information is based on the manufacturer's specifications. Despite a diligent treatment of all information BMS can not make any warranties about the completeness, reliability and accuracy of this information. The requirements of DGNB can be interpreted differently and depend on the project and scope of application. Therefore, BMS cannot accept any liability for the evaluation in terms of the DGNB criteria. The user of the data sheet, the user / purchaser of the product and the consultant / planner, who is advising on this product has the duty to check the product for the intended application at their own responsibility. When a new version of this product verification is produced, the previous version loses its validity.

Product Declaration - DGNB New Construction Office and Administration Buildings (NBV12)

MANUFACTURER	Adolf Würth GmbH & Co. KG
PRODUCT NAME	WIT- VM 250

Product Characteristics

The Würth Injection system WIT-VM 250 for concrete is a bonded anchor consisting of a cartridge with Würth injection mortar WIT-VM 250 and a steel element. The steel elements are commercial threaded rods in the range of M8 to M30 or reinforcing bar in the range of diameter 8 to 32 mm. The steel element is placed inta a drilled hole filled with injection mortar and is anchored via the bond between metal part, injection mortar and concrete. The system is a post-installed connection, by anchoring or overlap connection joint, of reinforcing bars (rebars) in existing structures made of normal weight concrete, using the "Würth Injection system WIT-VM 250 for rebar connection" in accordance with the regulations for reinforced concrete construction. Reinforcing bars made of steel with a diameter ds from 8 to 25 mm and Würth injection mortar and is anchored via the bond between rebar, injection mortar and concrete.

Product Rating DGNB Criteria

• The product meets the requirements of quality level 1 to 4 and contributes to achieve 100 (of max. 100 achievable) checklist points according to criterion 'ENV1.2 Local Environmental Impact'.

• The product does not lead to toxic or corrosive fumes in case of fire. Hence this product contributes to achieve 20 (of max. 20 achievable) checklist points according to criterion 'SOC 1.7 Safety and Security'.

he product contains the following components:	Mass pe unit [%
<1 WIT- VM 250	100%
out DGNB Products - www.dgnb.de	

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Product Declaration - DGNB New Construction Office and Administration Buildings (NBV12)

MANUFACTURERAdolf Würth GmbH & Co. KGPRODUCT NAMEWIT- VM 250

Product assessment of complete system

			Relevance	
	Number		eva	
Торіс	Number	Criteria	Re	Evaluation
	ENV1.1	Life cycle Assessment - Emissions		
	ENV1.2	Local environmental impact	\checkmark	Quality Level 4 is fulfilled
	ENV1.3.1	Responsible procurement (Wood)		
Environmental Quality (ENV)	ENV1.3.2	Responsible procurement (Formwork)		
	ENV1.3.3	Responsible procurement (Natural Stone)		
	ENV2.1	Life cycle Assessment - Primary Energy		
	ENV2.2	Potable water demand and wastewater volume		
	ENV2.3	Land Use		
	ECO1.1	Building-related life-cycle costs		
Economic Quality (ECO)	ECO2.1	Suitability for conversion		
	ECO2.2	Marketability		
	SOC1.1	Thermal Comfort		
	SOC1.2	Indoor Air Quality		
	SOC1.3	Acoustic Comfort		
	SOC1.4	Visual Comfort		
	SOC1.5	Occupant control		
	SOC1.6	Quality of outdoor spaces		
Sociocultural and Functional Quality (SOC)	SOC1.7	Safety and security	\checkmark	The product does not lead to toxic or corrosive fumes in case of fire
	SOC2.1	Access for all		
	SOC2.2	Public access		
	SOC2.3	Cyclist facilities		
	SOC3.1	Design and urban quality		
	SOC3.2	Integration of public art		
	SOC3.3	Floor Plan Qualities		
	TEC1.1	Fire prevention		
	TEC1.2	Noise protection		
	TEC1.3	Building envelope quality		
Technical Quality (TEC)	TEC1.4	Adaptability of Technical Systems		
	TEC1.5	Ease of cleaning and maintenance		
	TEC1.6	Ease of dismantling and recycling		
	TEC1.7	Sound immission control		
	PRO1.1	Comprehensive project brief		
	PRO1.2	Integral design		
	PRO1.3	Design concept		
Process Quality (PRO)	PRO1.4	Sustainability aspects in tender phase		
	PRO1.5	Documentation for Facility Management		
	PRO2.1	Environmental impact of construction		
	PRO2.2	Construction quality assurance		
	PRO2.3	Systematic commissioning		
	SITE1.1	Site location risks		
Site Quality (SITE)	SITE1.2	Public image and social conditions		
	SITE1.3	Access to transportation		
	SITE1.4	Access to specific-use facilities		

Product Declaration - DGNB New Construction Office and Administration Buildings (NBV12)

MANUFACTURER	Adolf Würth GmbH & Co. KG
PRODUCT NAME	WIT- VM 250

Product assessment for criteria ENV1.2 - Local environmental impact

The product fulfills the requirements for Quality Level 1-4

Assessment: Quality Level 4

Goals and Relevance

Certain materials, construction products and preparations are a risk for soil, air, groundwater and surface water as well as for human's health, flora and fauna. In order to minimize risks for humans and the local environment, materials, (construction) products and preparations need to be reduced ,avoided or substituted, which due to their material properties or ingredients are a risk for surface and ground water, soil or air. Especially those materials, (construction) products and preparations must be reduced ,avoided or replaced, which affect human health, flora and fauna or harm within a short-, medium / or long-term period . This affects the entire life cycle - from production, processing at site, use of (building) inventory and disposal (dismantling, recycling, landfilling). These local risks are assessed material and product related. Hence eco-and human toxicological impact categories of LCA can not be applied due to lack of evaluation and measurement procedures.

Product Assessment

Relevant Products		Requirements of Quality Levels		Assessement of Product	Evaluation
6	Small surface adhesions of mechanically loaded joints; not considered are areas of glass	Quality Level 1	No requirements		
	construction, facade and fire protection	Quality Level 2	No requirements		
		Quality Level 3	The product is free of chlorinated paraffins as a component OR is certified with RAL-UZ 123 (Blauer Engel)	The product is free of chlorinated paraffins as a recipe component	Quality Level 4
		Quality Level 4	The product is certified with RAL- UZ 123 (Blauer Engel) or equivalent		

Other remarks on classification

The product is neither an acrylate sealant or adhesive nor a silicone sealant and falls strictly speaking not under DGNB requirements. The product contributes to achieve quality level 4.

Product Declaration - DGNB New Construction Office and Administration Buildings (NBV12)

The product fulfills the requirr	ments for prevention of fumes.	Assessment:	20 of 20 Checklist Points
Product assessment for criteria	a SOC1.7 - Safety and Security		
PRODUCT NAME	WIT- VM 250		
MANUFACTURER	Adolf Würth GmbH & Co. KG		

Goals and Relevance

A high sense of security contributes fundamentally to the comfort of human being. The goal is to avoid dangerous situations as much as possible and to reduce the impact of a non-preventable damage, as far as possible. The criterion safety and security assesses also the performance of products in case of fire.

Product Assessment

	Relevant Requirements	Requirements of Quality Levels	Assessement of Product	Evaluation
2.3	Prevention from risks of fumes	20 Checklist Points The product does not lead to toxic or corrosive fumes in case of fire	The product does not lead to toxic or corrosive fumes in case of fire.	20 Checklist Points

Other remarks on classification

Product Declaration - DGNB Neubauversion Büro- und Verwaltungsgebäude (NBV15)

MANUFACTURER	Adolf Würth GmbH & Co. KG	
PRODUCT NAME	WIT- VM 250	
Product Rating DGNB Criteria		

• The product meets the requirements of quality level 1 to 4 and contributes to achieve 100 (of max. 100 achievable) checklist points according to criterion 'ENV1.2 Local Environmental Impact'.

Criterion ENV 1.2 Ri	Criterion ENV 1.2 Risks for the Local Environment - Ecological Quality				
Quality Level 1	10 Checklist Points	\checkmark			
Quality Level 2	50 Checklist Points	\checkmark			
Quality Level 3	75 Checklist Points	\checkmark			
Quality Level 4	100 Checklist Point	\checkmark			
Criterion ENV 1.3.1	Sustainable Resources - Ecological Quality*				
Quality Level 1	10 Checklist Points	0			
Quality Level 2	50 Checklist Points	0			
Quality Level 3	100 Checklist Points	0			
* This criterion is only applicable to wooden materials.					

Product Characteristics

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Credit requirements fulfilled - the action level is achieved
Credit is not applicable to this product
22% X% of the product comply with the credit requirement
Required data not specified - for required data contact manufacturer
Credit requirements are not fulfilled

About DGNB Products - www.dgnb.de

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Above you find an explanation of the symbols. Detailed information are on the next pages.

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Product Declaration - DGNB New Construction Office and Administration Buildings (NBV15)

MANUFACTURER

Adolf Würth GmbH & Co. KG

PRODUCT NAME

WIT- VM 250

Product assessment of complete system

			Relevance	
Торіс	Number	Criteria	Rel	Evaluation
	ENV1.1	Life cycle Assessment - Emissions		
	ENV1.2	Local environmental impact	\checkmark	Quality Level 4 is fulfilled
	ENV1.3.1	Responsible procurement (Wood)		
Environmental Quality (ENV)	ENV1.3.3	Responsible procurement (Natural Stone)		
	ENV2.1	Life cycle Assessment - Primary Energy		
	ENV2.2	Potable water demand and wastewater volume		
	ENV2.3	Land Use		
	ECO1.1	Building-related life-cycle costs		
Economic Quality (ECO)	ECO2.1	Suitability for conversion		
	ECO2.2	Marketability		
	SOC1.1	Thermal Comfort		
	SOC1.2	Indoor Air Quality		
	SOC1.3	Acoustic Comfort		
	SOC1.4	Visual Comfort		
	SOC1.5	Occupant control		
	SOC1.6	Quality of stay outdoor / indoor		
	SOC1.7	Safety		
Sociocultural and Functional Quality (SOC)	SOC2.1	Access for all		
	SOC2.2	Public access		
	TEC1.2	Noise protection		
	TEC1.3	Building envelope quality		
	TEC1.4	Adaptability of Technical Systems		
	TEC1.5	Ease of cleaning and maintenance		
	TEC1.6	Ease of dismantling and recycling		
	TEC3.1	mobility infrastructure		
	PRO1.1	Project preparation and planning		
	PRO1.3	Conceptual design and optimization in the planning		
	PRO1.4	Sustainability aspects in tender phase		
	PRO1.5	Documentation for Facility Management		
Process Quality (PRO)	PRO1.6	Design and urban quality		
	PRO2.1	Environmental impact of construction		
	PRO2.2	Construction quality assurance		
	PRO2.3	Systematic commissioning		
	SITE1.1	Site location risks		
	SITE1.2	Public image and social conditions		
Site Quality (SITE)	SITE1.3	Access to transportation		
	SITE1.4	Access to specific-use facilities		
			I	

Product Declaration - DGNB New Construction Office and Administration Buildings (NBV15)

MANUFACTURER	Adolf Würth GmbH & Co. KG
PRODUCT NAME	WIT- VM 250
Product assessment for criteria	ENV1.2 - Local environmental impact

The product fulfills the requirements for Quality Level 1-4

Assessment: Quality Level 4

Goals and Relevance

Certain materials, construction products and preparations are a risk for soil, air, groundwater and surface water as well as for human's health, flora and fauna. In order to minimize risks for humans and the local environment, materials, (construction) products and preparations need to be reduced ,avoided or substituted, which due to their material properties or ingredients are a risk for surface and ground water, soil or air. Especially those materials, (construction) products and preparations must be reduced ,avoided or replaced, which affect human health, flora and fauna or harm within a short-, medium / or long-term period . This affects the entire life cycle - from production, processing at site, use of (building) inventory and disposal (dismantling, recycling, landfilling). These local risks are assessed material and product related. Hence eco-and human toxicological impact categories of LCA can not be applied due to lack of evaluation and measurement procedures.

Product Assessment

Relevant Products	Requirements of Quality Levels	Assessment of Product	Evaluation	
There are no requirements for the product.				

Other remarks on classification

The product falls strictly speaking not under DGNB requirements. The product contributes to achieve quality level 4.

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Product Declaration - DGNB New Construction Office and Administration Buildings (NBV15)

 MANUFACTURER
 Adolf Würth GmbH & Co. KG

 PRODUCT NAME
 WIT- VM 250

The product contains the following components:	Mass per unit [%]
K1 WIT- VM 250	100%

Product Declaration - LEED® 2009 New Construction And Major Renovations NC & CS

Manufacturer Adolf Würth GmbH & Co. KG

Product Name WIT- VM 250

Product Rating

• The product fulfills the requirements for adhesives and sealants and contribute to achieve one LEED credit within IEQ Credit 4.1.

Indoor Environmental Quality (IEQ) - LEED Category						
IEQ Credit 4.1: Low I	Emitting Materials:	Adhesives and Sealants	1 Point	\checkmark		
IEQ Credit 4.2: Low I	Emitting Materials:	Paints and Coatings	1 Point	0		
IEQ Credit 4.3: Low I	Emitting Materials:	Flooring Systems	1 Point	0		
IEQ Credit 4.4: Low Emitting Materials: Composite Wood and Agrifiber Products 1 Point						
Materials and Reso	urces (MR) - LEED	Category				
MR Credit 4: Recy	cled Content		1-2 Points	—		
MR Credit 5: Regi	onal Materials		1-2 Points	See Location		
MR Credit 6: Rapi	dly Renewable Ma	terials	1 Point	0		
MR Credit 7: Certi	ified Wood		1 Point	0		

Product Characteristics

The Würth Injection system WIT-VM 250 for concrete is a bonded anchor consisting of a cartridge with Würth injection mortar WIT-VM 250 and a steel element. The steel elements are commercial threaded rods in the range of M8 to M30 or reinforcing bar in the range of diameter 8 to 32 mm. The steel element is placed inta a drilled hole filled with injection mortar and is anchored via the bond between metal part, injection mortar and concrete. The system is a post-installed connection, by anchoring or overlap connection joint, of reinforcing bars (rebars) in existing structures made of normal weight concrete, using the "Würth Injection system WIT-VM 250 for rebar connection" in accordance with the regulations for reinforced concrete construction. Reinforcing bars made of steel with a diameter ds from 8 to 25 mm and Würth injection mortar WIT-VM 250 are used for rebar connections. The rebar is placed into a drilled hole filled with injection mortar and is anchored via the bond between rebar, injection mortar and concrete.

About LEED & Products - www.usgbc.org

This declaration helps to assess products easily according the certification system LEED® 2009 New Construction and Major Renovations NC & CS (excluded SCHOOLS). Products are not reviewed or certified by LEED. LEED credit requirements cover the performance of materials in aggregate, not the performance of individual products or brands. For more information about LEED visit www.usgbc.org/leed. The project team or the manufacturer is responsible to declare the compliance with the project requirements to achieve LEED points.

Below you find an explanation of the symbols. Detailed information are on the next pages.

Credit requirements fulfilled - the credit point can be achieved
 Credit is not applicable to this product

Credit is not applicable to this product

X% of the product comply with the credit requirement

Required data not specified - for required data contact manufacturer

Credit requirements are not fulfilled

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Product Declaration - LEED® 2009 New Construction And Major Renovations NC & CS

Manufacturer Adolf Würth GmbH & Co. KG

Product Name WIT- VM 250

IEQ Credit 4.1: Low Emitting Materials: Adhesives and Sealants (1 Point)

Intent

Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants caused by adhesives and sealants applied on site.

Requirement

All adhesive, sealants and sealant primers used on the interior of the building (defined as inside of the weatherproofing system and applied on-site) must comply shall comply with the VOC content limits of the following:

- SCAQMD Rule #1168 (effective date of July 1, 2005 and rule amendment date of January 7, 2005),
- Aerosol Adhesives must comply with Green Seal Standard for Commercial Adhesives GS-36 requirements in effect on October 19, 2000.

IEQ Credit 4.2: Low Emitting Materials: Paints and Coatings (1 Point)

Intent

Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants caused by paints and coatings applied on site.

Requirement

Paints and coatings used on the interior of the building (defined as inside of the weatherproofing system and applied on-site) must comply with the VOC content limits of the following:

- Green Seal Standard GS-11, Paints Edition, May 20, 1993,
- Green Seal Standard GC-03, Anti-Corrosive Paints, Second Edition, January 7, 1997, and
- South Coast Air Quality Management District (SCAQMD) Rule 1113, Architectural Coatings, rules in effect on January 1, 2004.

Detailed Rating

No	Product Name	Manufacturer	Related	Product Type	VOC-C	ontent	Contribution of Product	
			Credit		Allowable	Product		
A1	WIT- VM 250	Adolf Würth GmbH & Co. KG	IEQ Credit 4.1	Multipurpose construction adhesives (SCAQMD Rule 1168)	70g/l	<56g/l	The product fulfills the requirements for adhesives & sealants.	\checkmark

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Product Declaration - LEED® 2009 New Construction And Major Renovations NC & CS

Manufacturer Adolf Würth GmbH & Co. KG

Product Name WIT- VM 250

MR Credit 4: Recycled Content (1-2 Points)

Intent

To increase demand for building products that incorporate recycled content materials, thereby reducing impacts resulting from extraction and processing of virgin materials.

Requirement

Use materials with recycled content* such that the sum of post-consumer** recycled content plus one-half of the pre-consumer*** content constitutes at least 10%/20% (based on cost) of the total value of the materials in the project.

The minimum percentage materials recycled for each point threshold is as follows:

- 10% Recycled Content -> 1 Point
- 20% Recycled Content -> 2 Points.

* Recycled content is defined in accordance with the International Organization of Standards document, ISO 14021 — Environmental labels and declarations — Self-declared environmental claims (Type II environmental labeling).

** Postconsumer material is defined as waste material generated by households or by commercial, industrial and institutional facilities in their role as end-users of the product, which can no longer be used for its intended purpose.

*** Preconsumer material is defined as material diverted from the waste stream during the manufacturing process. Reutilization of materials (i.e., rework, regrind or scrap generated in a process and capable of being reclaimed within the same process that generated it) is excluded.

Detailed Rating

N	o Product Name	Manufacturer	Recycled Post- Consumer	Content Pre- Consumer	Contribution of Product	
A	.1 WIT- VM 250	Adolf Würth GmbH & Co. KG	Not specified	Not specified	No recycled content specified.	_

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Product Declaration - LEED® 2009 New Construction And Major Renovations NC & CS

Manufacturer Adolf Würth GmbH & Co. KG

Product Name WIT- VM 250

MR Credit 5: Regional Materials (1-2 Points)

Intent

To increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting the use of indigenous resources and reducing the environmental impacts resulting from transportation.

Requirement

Use building materials or products that have been extracted, harvested or recovered, as well as manufactured, within 500 miles of the project site for a minimum of 10% or 20%, based on cost, of the total materials value. If only a fraction of a product or material is extracted, harvested, or recovered and manufactured locally, then only that percentage (by weight) must contribute to the regional value. The minimum percentage regional materials for each point threshold is as follows:

10% Regional Materials -> 1 Point

• 20% Regional Materials -> 2 Points.

Detailed Rating

No	o Product Name Manufacturer		Location Harvesting/ Extraction	Location Manufacturing	
A1	WIT- VM 250	Adolf Würth GmbH & Co. KG	Not specified	Not specified	