Product Declaration - DGNB Neubauversion Büro- und Verwaltungsgebäude 2012

MANUFACTURER BPA-GmbH Herrenberg

PRODUCT NAME BPA-SilverSeal

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 Risks for the Local Environment - Ecological Quality

Quality Level 1 10 Checklist Points

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Quality Level 2 50 Checklist Points

Quality Level 3 75 Checklist Points

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Quality Level 4 100 Checklist Point

\checkmark

Criterion ENV 1.3.1 Sustainable Resources - Ecological Quality*

Quality Level 1 10 Checklist Points



Quality Level 2 50 Checklist Points



Quality Level 3 100 Checklist Points



Product Characteristics

BPA-SilverSeal is a "lightweight" waterproofing system for the use in any water-sealing applications. BPA-SilverSeal is a needle punched non-woven fleece impregnated with water absorbing and water swelling polymer combined with a high density PE-membrane. BPA-SilverSeal is a well-tested double-sealing system, which is specially designed for the waterproofing of concrete structures in building construction, underground engineering and tunnelling. The use of BPA-SilverSeal® eliminates the need for conventional waterproofing materials such as bituminous liners, coatings and synthetic membranes of all kinds.

The unique sealing properties of BPA-SilverSeal are attained through two functions: the first sealing function lies in the high density PE-membrane, the second sealing function is only activated if the membrane is damaged and the incoming water activates the swelling non-woven geotextile. If water penetrates the membrane, the water reactive polymer swells thus creating an extremely tight, gel-like film which permanently seals the concrete structure.

- Credit requirements fulfilled the action level is achieved
- O 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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^{*} This criterion is only applicable to wooden materials.

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Product assessment of complete system

Product assessment of complete system									
Торіс	Number	Criteria	Relevance	Evaluation					
	ENV1.1	Life cycle Assessment - Emissions							
	ENV1.2	Local environmental impact	√	Quality Level 4 is fulfilled					
	ENV1.3.1	Responsible procurement (Wood)		adding 2010. The familied					
	ENV1.3.2	Responsible procurement (Formwork)							
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 outdoor spaces							
Sociocultural and Functional Quality (SOC)	SOC1.7	Safety and security							
	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							

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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
28	Plastics for coating of surfaces (floor and wall) and components on the facade	Quality Level 1	Content of lead and tin <0.1%		
	Subject: resilient flooring (PVC,	Quality Level 2	Content of lead and tin <0.1%	The content of lead and tin in the	0
	rubber, etc.), wall coverings and plastic windows	Quality Level 3	Content of lead and tin <0.1%	used plastics is < 0.1%	Quality Level 4
		Quality Level 4	Content of lead and tin <0.1%		

Other remarks on classification

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The	product contains the following components:	Mass per unit [%]
K1	BPA-SilverSeal	100%