

**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 
**Quality Level 2** 50 Checklist Points 
**Quality Level 3** 75 Checklist Points 
**Quality Level 4** 100 Checklist Point 
**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 

\* This criterion is only applicable to wooden materials.

**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**

**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](http://www.dgnb.de)**

This declaration helps to assess products easily according the certification system DGNB® Neubauversion Büro- und Verwaltungsgebäude (NBV12). Products are not reviewed or certified by DGNB. DGNB credit requirements cover the performance of materials in aggregate, not the performance of individual products or brands. Therefore the project team or the manufacturer is responsible to declare the compliance with the project requirements to achieve DGNB points.

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

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**Product assessment of complete system**

Topic	Number	Criteria	Relevance	Evaluation
Environmental Quality (ENV)	ENV1.1	Life cycle Assessment - Emissions		
	ENV1.2	Local environmental impact	✓	Quality Level 4 is fulfilled
	ENV1.3.1	Responsible procurement (Wood)		
	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		
Economic Quality (ECO)	ECO1.1	Building-related life-cycle costs		
	ECO2.1	Suitability for conversion		
	ECO2.2	Marketability		
Sociocultural and Functional Quality (SOC)	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		
	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		
Technical Quality (TEC)	TEC1.1	Fire prevention		
	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		
	TEC1.7	Sound immission control		
Process Quality (PRO)	PRO1.1	Comprehensive project brief		
	PRO1.2	Integral design		
	PRO1.3	Design concept		
	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		
Site Quality (SITE)	SITE1.1	Site location risks		
	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  Subject: resilient flooring (PVC, rubber, etc.), wall coverings and plastic windows	Quality Level 1    Content of lead and tin <0.1%  Quality Level 2    Content of lead and tin <0.1%  Quality Level 3    Content of lead and tin <0.1%  Quality Level 4    Content of lead and tin <0.1%	The content of lead and tin in the used plastics is < 0.1%	<b>Quality Level 4</b>

**Other remarks on classification**

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<b>PRODUCT NAME</b>	BPA-SilverSeal
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The product contains the following components:

**Mass per  
unit [%]**

K1	BPA-SilverSeal
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100%