

**Product Declaration - LEED® 2009 New Construction And Major Renovations NC & CS**
**MANUFACTURER** BPA-GmbH Herrenberg

**PRODUCT NAME** BPA-SilverSeal

**Product Rating**

The product is not applicable to any LEED credits.

**Indoor Environmental Quality (IEQ) - LEED Category**

IEQ Credit 4.1: Low Emitting Materials: <b>Adhesives and Sealants</b>	1 Point	<input type="radio"/>
IEQ Credit 4.2: Low Emitting Materials: <b>Paints and Coatings</b>	1 Point	<input type="radio"/>
IEQ Credit 4.3: Low Emitting Materials: <b>Flooring Systems</b>	1 Point	<input type="radio"/>
IEQ Credit 4.4: Low Emitting Materials: <b>Composite Wood and Agrifiber Products</b>	1 Point	<input type="radio"/>

**Materials and Resources (MR) - LEED Category**

MR Credit 4: <b>Recycled Content</b>	1-2 Points	0%
MR Credit 5: <b>Regional Materials</b>	1-2 Points	See Location
MR Credit 6: <b>Rapidly Renewable Materials</b>	1 Point	<input type="radio"/>
MR Credit 7: <b>Certified Wood</b>	1 Point	<input type="radio"/>

**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.

<input checked="" type="checkbox"/>	<b>Credit requirements fulfilled - the credit point can be achieved</b>
<input type="radio"/>	<b>Credit is not applicable to this product</b>
22%	<b>X% of the product comply with the credit requirement</b>
—	<b>Required data not specified - for required data contact manufacturer</b>
<input checked="" type="checkbox"/>	<b>Credit requirements are not fulfilled</b>

**About LEED & Products - [www.usgbc.org](http://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](http://www.usgbc.org/leed). The project team or the manufacturer is responsible to declare the compliance with the project requirements to achieve LEED points.

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



**Product Declaration - LEED® 2009 New Construction And Major Renovations NC & CS**
**MANUFACTURER** BPA-GmbH Herrenberg

**PRODUCT NAME** BPA-SilverSeal

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


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.

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 Credit	Product Type	VOC-Content		Contribution of Product	
					Allowable	Product		
A1	BPA-SilverSeal	BPA-GmbH Herrenberg	N/A	N/A	N/A	N/A	The product is no adhesive, sealant, paint or coating.	

**Product Declaration - LEED® 2009 New Construction And Major Renovations NC & CS**
**MANUFACTURER** BPA-GmbH Herrenberg

**PRODUCT NAME** BPA-SilverSeal

**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**

No	Product Name	Manufacturer	Recycled Content		Contribution of Product	
			Post-Consumer	Pre-Consumer		
A1	BPA-SilverSeal	BPA-GmbH Herrenberg	0%	0%	Accountable recycled content according to LEED is 0% (1 x Post-Consumer + 0.5 x Pre-Consumer).	<b>0%</b>

**Product Declaration - LEED® 2009 New Construction And Major Renovations NC & CS**
**MANUFACTURER** BPA-GmbH Herrenberg

**PRODUCT NAME** BPA-SilverSeal

**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	Product Name	Manufacturer	Location Harvesting/ Extraction	Location Manufacturing
A1	BPA-SilverSeal	BPA-GmbH Herrenberg	Not specified	Not specified