

## ENVIRONMENTAL PRODUCT DECLARATION

# BEHR PRO® PRE-CATALYZED WATERBORNE EPOXY

INTERIOR/EXTERIOR PAINT



Shown above: BEHR PRO® Pre-Catalyzed Waterborne Epoxy is a GREENGUARD® Gold certified, low VOC, single-component acrylic epoxy coating that is ready to use with no sweat-in time or pot life limitations.

In order to support comparative assertions, this EPD meets all comparability requirements stated in ISO 14025:2006. However, such differences in certain assumptions, data quality, and variability between LCA data sets may still exist. As such, caution should be exercised when evaluating EPDs from different manufacturers, as the EPD results may not be entirely comparable. Any EPD comparison must be carried out at the building level per ISO 21930 guidelines. The results of this EPD reflect an average performance by the product and its actual impacts may vary on a case-to-case basis.

**BEHR** Paint Company

Behr Paint Company, producer of BEHR® and KILZ® products, is one of the largest manufacturers and suppliers of paint, primers, stains and surface finish products to do-it-yourselfers and professionals. Sustainability is a core concept of our business strategy and culture ensuring top economic, social and environmental performance. Behr Paint Company's commitment to sustainability, quality, value, and performance has driven our desire for innovation and transparency. The creation of a Life Cycle Assessment (LCA) report and Environmental Product Declaration (EPD) allows us to continually improve our operations and illustrate a complete story behind our products.

To learn more, visit [behr.com](http://behr.com) and [kilz.com](http://kilz.com)





# ENVIRONMENTAL PRODUCT DECLARATION



BEHR PRO® Pre-Catalyzed Waterborne Epoxy

According to ISO 14025,  
and ISO21930

EPD PROGRAM AND PROGRAM OPERATOR NAME, ADDRESS, LOGO, AND WEBSITE	UL Solutions 333 Pfingsten Rd, Northbrook IL, 60062	www.ul.com www.spot.ul.com
GENERAL PROGRAM INSTRUCTIONS AND VERSION NUMBER	Program Operator Rules v 2.7 2022	
MANUFACTURER NAME AND ADDRESS	Behr Process LLC 1801 E St Andrew Pl, Santa Ana, CA 92705	
DECLARATION NUMBER	4791080617.110.1	
DECLARED PRODUCT & FUNCTIONAL UNIT OR DECLARED UNIT	1m <sup>2</sup> of covered and protected substrate for a period of 60 years with 97% opacity after drying	
REFERENCE PCR AND VERSION NUMBER	PCR for architectural coating: NAICS 325510, NSF (2022)	
DESCRIPTION OF PRODUCT APPLICATION/USE	Interior/Exterior Paint	
PRODUCT RSL DESCRIPTION (IF APPL.)	Int: 5 years market life and 7 years design life used over a 60 year estimated building life Ext: 10 years market life and 10 years design life used over a 60 year estimated building life	
MARKETS OF APPLICABILITY	North America	
DATE OF ISSUE	August 26, 2024	
PERIOD OF VALIDITY	5 Years	
EPD TYPE	Product-specific	
RANGE OF DATASET VARIABILITY	N/A	
OVERALL DATA QUALITY ASSESSMENT SCORE	Very good	
EPD SCOPE	Cradle to grave	
YEAR(S) OF REPORTED PRIMARY DATA	2021	
LCA SOFTWARE & VERSION NUMBER	Sphera's LCA for Experts (fka GaBi) v10.7.0.183	
LCI DATABASE(S) & VERSION NUMBER	Sphera's Managed LCA Content (fka GaBi) 2023.1	
LCIA METHODOLOGY & VERSION NUMBER	IPCC AR5, TRACI 2.1, CML 2001 (2013)	
The PCR review was conducted by:	NSF International	
	PCR Review Panel	
	<a href="mailto:ncss@nsf.org">ncss@nsf.org</a>	
This declaration was independently verified in accordance with ISO 14025: 2006. <input type="checkbox"/> INTERNAL <input checked="" type="checkbox"/> EXTERNAL	 Cooper McCollum, UL Solutions	
	Sphera	
This life cycle assessment was conducted in accordance with ISO 14040/44 and the reference PCR by:		
This life cycle assessment was independently verified in accordance with ISO 14044 and the reference PCR by:	 Maggie Wildnauer, WAP Sustainability	

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BEHR PRO® Pre-Catalyzed Waterborne Epoxy

According to ISO 14025,  
ISO 21930

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## LIMITATIONS

Exclusions: EPDs do not indicate that any environmental or social performance benchmarks are met, and there may be impacts that they do not encompass. LCAs do not typically address the site-specific environmental impacts of raw material extraction, nor are they meant to assess human health toxicity. EPDs can complement but cannot replace tools and certifications that are designed to address these impacts and/or set performance thresholds – e.g. Type 1 certifications, health assessments and declarations, environmental impact assessments, etc.

Accuracy of Results: EPDs regularly rely on estimations of impacts; the level of accuracy in estimation of effect differs for any particular product line and reported impact.

Comparability: EPDs from different programs may not be comparable. Full conformance with a PCR allows EPD comparability only when all stages of a life cycle have been considered. However, variations and deviations are possible". Example of variations: Different LCA software and background LCI datasets may lead to differences results for upstream or downstream of the life cycle stages declared.

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BEHR PRO® Pre-Catalyzed Waterborne Epoxy

According to ISO 14025,  
ISO 21930

## 1. Product Definition and Information

### 1.1. Description of Company/Organization

Founded in 1947, Behr Paint Company's unwavering commitment to quality, innovation, and value has helped foster their growth into one of the largest manufacturers of paints, primers, decorative finishes, stains, surface preparation and application products for DIYers and professionals in North America. With operations in the United States, Canada, and Mexico, this Santa Ana, California based company has worked diligently to deliver the quality brands, BEHR®, KILZ®, and WHIZZ® to meet the coating, color, and application needs of consumers, designers and professional paint contractors resulting in BEHR® becoming one of the most trusted brands in America. BEHR® paint delivers superior value at every price point so everyone can transform their space into the look they want, with the colors they love.

### 1.2. Product Description

#### Product Identification

BEHR PRO® Pre-Catalyzed Waterborne Epoxy is a high-performance, single-component acrylic epoxy coating designed for interior/exterior use in commercial, institutional, and industrial facilities, such as hospitals, schools, and food and beverage processing plants. This coating conforms to USDA regulatory requirements for incidental food contact materials intended for use on surfaces not in direct contact with food, such as walls and ceilings. BEHR PRO® Pre-Catalyzed Waterborne Epoxy is GREENGUARD® GOLD certified and MPI approved offering a line of coatings that meet or exceed environmental and performance requirements. This product line includes: HP140 Eggshell, HP150 Semi-Gloss and is available in gallon and 5-gallon sized containers. Tint bases are offered in: White and Deep, to allow custom tinting to a full range of colors.

#### Product Specification

Table 1. Specifications for BEHR PRO® Pre-Catalyzed Waterborne Epoxy

SKU	FILL / MAX TINT LOAD	GLOSS @ 60°	SHEEN @ 85°	RESIN TYPE	% SOLIDS BY VOLUME	% SOLIDS BY WEIGHT	FILM THICKNESS @ 300 SQ FT/GL	FILM THICKNESS @ 400 SQ FT/GL	VISCOSITY (KU)
HP140 I/E	124 fl oz 4 fl oz	10 – 20	20 – 30	Acrylic Epoxy	36% ± 2%	51% ± 2%	Wet: 5.3 mils Dry: 1.9 mils	Wet: 4.0 mils Dry: 1.4 mils	100 – 110
HP143 I/E	116 fl oz 10 fl oz	10 – 20	20 – 30	Acrylic Epoxy	36% ± 2%	51% ± 2%	Wet: 5.3 mils Dry: 1.9 mils	Wet: 4.0 mils Dry: 1.4 mils	100 – 110
HP150 I/E	124 fl oz 4 fl oz	40 – 50	-	Acrylic Epoxy	37% ± 2%	48% ± 2%	Wet: 5.3 mils Dry: 2.0 mils	Wet: 4.0 mils Dry: 1.5 mils	100 – 110



# ENVIRONMENTAL PRODUCT DECLARATION



BEHR PRO® Pre-Catalyzed Waterborne Epoxy

According to ISO 14025,  
ISO 21930

SKU	FILL / MAX TINT LOAD	GLOSS @ 60°	SHEEN @ 85°	RESIN TYPE	% SOLIDS BY VOLUME	% SOLIDS BY WEIGHT	FILM THICKNESS @ 300	FILM THICKNESS @ 400	VISCOSITY (KU)
							SQ FT/GL	SQ FT/GL	
HP153 I/E	116 fl oz 10 fl oz	40 – 50	-	Acrylic Epoxy	37% ± 2%	48% ± 2%	Wet: 5.3 mils Dry: 2.0 mils	Wet: 4.0 mils Dry: 1.5 mils	100 – 110

### 1.3. Application

Recommended application information for BEHR PRO® Pre-Catalyzed Waterborne Epoxy is as follows:

**Brush:** Nylon/polyester

**Roller:** 1/4" – 3/4" nap roller cover, depending on surface texture

**Airless Spray:**

**Tip:** .015" - .021"

**Filter:** 60 mesh

**Fluid Pressure:** 2,000 – 3,000 psi

**Thinning:** DO NOT THIN. Product is formulated for use at package consistency only.

The VOC emissions associated with each SKU after application are all <0.22 mg/m<sup>3</sup>. The method used to determine this was the California Department of Public Health (CDPH) standard test method, a revised and expanded standard based on California Specification 01350. VOC content in g/L for each SKU is shown in Table 2.

Table 2. VOC content for each paint (g/L)

	HP140 I/E	HP143 I/E	HP150 I/E	HP153 I/E
VOC (g/L of paint)	5.11	6.38	9.46	8.45





BEHR PRO® Pre-Catalyzed Waterborne Epoxy

According to ISO 14025,  
ISO 21930

1.4. Material Composition

The material composition of the paint in this product line is broken down by sheen and shown in Table 3 to Table 4.

Table 3. Material composition range in weight % for BEHR PRO® Pre-Cat Waterborne Epoxy Eggshell

MATERIAL- SEMI-GLOSS	HP140 I/E	HP143 I/E
Resin/Binder	40 – 45%	55 – 60%
Additive	5 – 10%	5 – 10%
Biocide	0.1 – 1%	0.1 – 1%
Extender Pigment	5 – 10%	10 – 15%
Pigment (TiO2)	25 – 30%	-
Water	15 – 20%	20 – 25%

Table 4. Material composition range in weight % for BEHR PRO® Pre-Cat Waterborne Epoxy Semi-Gloss

MATERIAL- EGGSHELL	HP150 I/E	HP153 I/E
Resin/Binder	55 – 60%	75 – 80%
Additive	5 – 10%	1 – 5%
Biocide	0.1 – 1%	0.1 – 1%
Extender Pigment	0.1 – 1%	1 – 5%
Pigment (TiO2)	25 – 30 %	-
Water	5 – 10%	10 – 15%

1.5. Manufacturing

As shown in Figure 1, manufacturing begins with metering of raw materials, followed by the pre-mix, dispersion, and let-down steps. The finished paint is dispensed into jars, cans, and/or pails, which are then labeled, boxed, and loaded onto pallets for distribution.





Flow Diagram

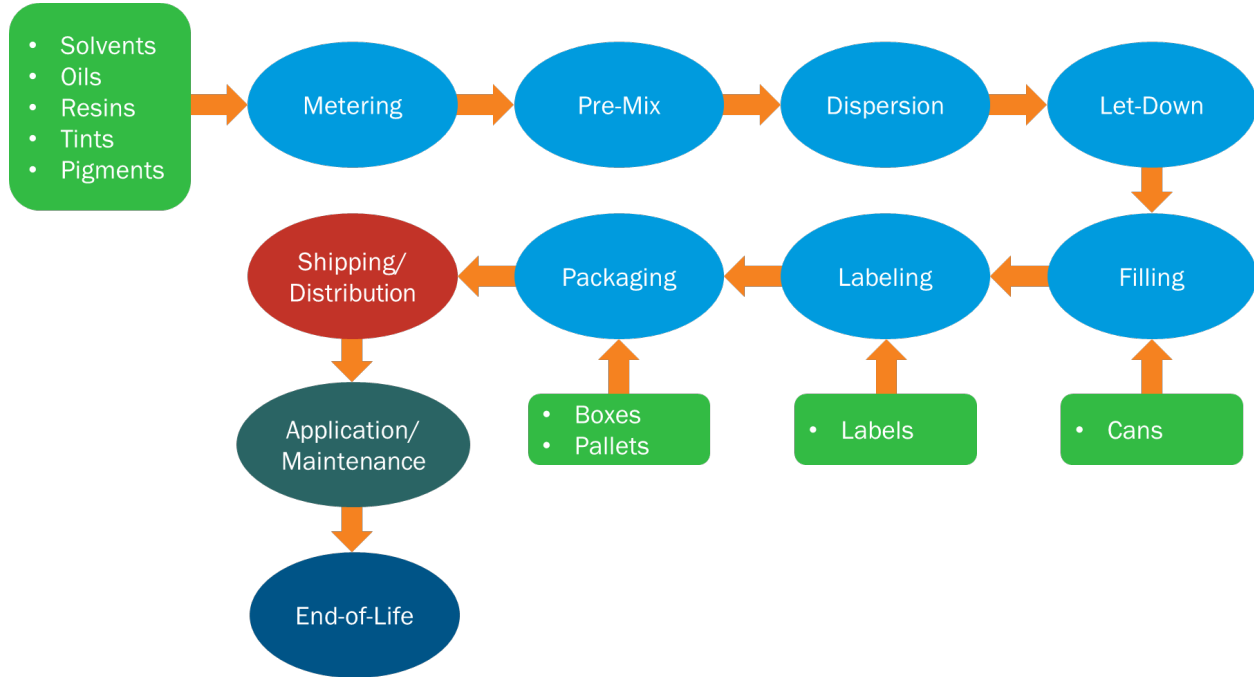


Figure 1. Flow diagram for cradle-to-grave LCA of BEHR PRO® Pre-Catalyzed Waterborne Epoxy

1.6. Packaging

Table 5 provides descriptions, volumes, and materials for the primary paint packaging used for BEHR PRO® Pre-Catalyzed Waterborne Epoxy. These packages are then placed in cardboard boxes and loaded onto heat-treated wooden pallets for distribution.

Table 5. Description of primary paint packaging

CONTAINER	VOLUME	MATERIAL
Can	Gallon	Polypropylene
Pail	5 Gallons	High Density Polyethylene





BEHR PRO® Pre-Catalyzed Waterborne Epoxy

According to ISO 14025,  
ISO 21930

**1.7. Transportation**

Raw materials and packaging are transported to each of the production facilities via truck or rail. After production and packaging, the paint is sent to one of twelve distribution centers by truck before being trucked to individual The Home Depot stores. Weighted average distances are calculated for transportation from distribution centers to stores in seven different regions.

**1.8. Product Installation and Use**

The use stage begins when the user applies the product to a substrate. This stage does not require any energy or additional cleaning inputs, but includes the VOCs emitted during application and drying. The products included in the BEHR PRO® Pre-Catalyzed Waterborne Epoxy portfolio are considered low-VOC products.

**1.9. Reference Service Life and Estimated Building Service Life**

Table 6 shows the design lifetime for interior and exterior paints of different quality. The entire BEHR PRO® Pre-Catalyzed Waterborne Epoxy product line is considered mid-quality, and therefore has a design life of 7 years as an interior coating and 10 years as an exterior coating. Per the PCR, all results declared are calculated for a market life of 5 years as an interior coating and 10 years as an exterior coating. The estimated building life is 60 years per the PCR.

**Table 6. Design lifetime of paints**

COATING TYPE	LOW QUALITY	MID QUALITY	HIGH QUALITY	ALTERNATIVE
Interior Paint	3 years	7 years	15 years	N/A
Exterior Paint	5 years	10 years	20 years	Warranty

**1.10. Reuse, Recycling, and Energy Recovery**

The Home Depot stores encourage customers to use PaintCare or local paint recycling programs.

**1.11. Disposal**

Product end-of-life occurs with the disposal of the substrate material. 100% of the waste is disposed of in a landfill at the end-of-life stage and cannot be separated from the substrate before disposal. Packaging is recovered at a rate of 6.2% for plastics, 33.9% for metals, and 80.9% for paper and corrugated material. Recovery rates represent the average fractions of waste recovered in the US.







BEHR PRO® Pre-Catalyzed Waterborne Epoxy

According to ISO 14025,  
ISO 21930

## 2. Life Cycle Assessment Background Information

### 2.1. Functional or Declared Unit

The functional unit for the study is:

***Covering and protecting 1 m<sup>2</sup> of substrate for a period of 60 years (the assumed lifetime of a building), exhibiting 97% opacity after drying***

The functional unit and reference flow required for the functional unit were calculated for both the market life and design life as prescribed by the PCR. Market life for interior paints is 5 years and 10 years for exterior paints. The design life is based on the quality as determined by ASTM test methods for scrub resistance (ASTM D2486 - 06(2012)e1), burnish (ASTM D6736 - 08(2013)), and washability (ASTM D4828 - 94(2012)e1) and is shown in Table 6. Lifetimes and reference flows for each sheen and base combination are shown in Table 7. Results were calculated for all base and sheen formulations.

For further technical information on BEHR PRO® Pre-Catalyzed Waterborne Epoxy, visit [www.behr.com](http://www.behr.com).

**Table 7. Sheen, base, design life, market life, and reference flows for each paint product**

SKU	SHEEN	BASE	DESIGN LIFETIME (YEARS)	MARKET LIFETIME (YEARS)	PAINT PER UNIT AREA (KG/M <sup>2</sup> )	COLORANT PER UNIT AREA (KG/M <sup>2</sup> )
HP140 Int	Eggshell	White	7	5	0.134	0.0047
HP140 Ext	Eggshell	White	10	10	0.134	0.0047
HP143 Int	Eggshell	Deep	7	5	0.116	0.0159
HP143 Ext	Eggshell	Deep	10	10	0.116	0.0159
HP150 Int	Semi-Gloss	White	7	5	0.126	0.0047
HP150 Ext	Semi-Gloss	White	10	10	0.126	0.0047
HP153 Int	Semi-Gloss	Deep	7	5	0.108	0.0159
HP153 Ext	Semi-Gloss	Deep	10	10	0.108	0.0159

### 2.2. System Boundary

The LCA was performed according to ISO 14040 standards. The system boundary is cradle-to-grave, and includes the following modules as defined in the PCR. The declaration covers the full range of BEHR PRO® Pre-Catalyzed Waterborne Epoxy sold in the North American market for the reference year 2021.



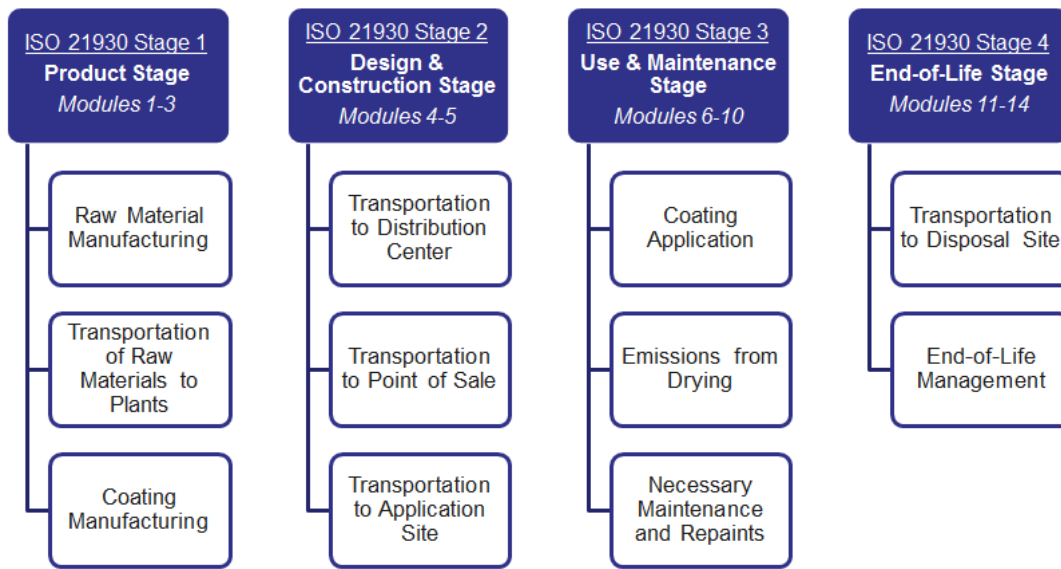


Figure 2. System boundaries for cradle to grave LCA

### 2.3. Estimates and Assumptions

The modeling approach makes assumptions that are prescribed by the PCR, such as in packaging disposal and recovery treatment, as well as transportation distances and use phase assumptions.

### 2.4. Cut-off Criteria

No cut-off criteria was defined by this study. For processes within the system boundary, all available energy and material flow data have been included in the model.

### 2.5. Data Sources and Quality

Primary data, for the 2021 reference year, was obtained from the one of Behr’s production facilities that produced BEHR PRO® Pre-Catalyzed Waterborne Epoxy which is located in Santa Ana, CA. Background data was obtained from the GaBi 2023.1 database and is representative of the years 2012-2021. Overall, both primary and background data are representative of the product system and have been deemed very good quality.





**2.6. Period under Review**

The period under review is 2021.

**2.7. Allocation**

Manufacturing inputs for the facility were allocated to each paint product by volume.

**3. Life Cycle Assessment Results**

In accordance with the PCR, TRACI 2.1 impact characterization methodology is used to calculate the declared environmental impacts, except for global warming potential and abiotic resource depletion, which follow the methodology in the IPCC 5th assessment report, and CML, respectively (Table 8). Additional inventory metrics are also calculated per the guiding PCR. The declared impacts and inventory metrics are summarized in this section. The total LCIA results for design life and market life for each impact category are provided in Table 9 and Table 16, respectively.

Furthermore, the results of each impact category for each stage are presented in Table 10 to Table 15 and from Table 17 to Table 22. Additionally, the LCI results for each stage are presented for each product (both market life and design life). The total LCI results for each impact category are also mentioned in this section.

**3.1. Life Cycle Impact Assessment Results**

**Table 8. Environmental impact categories for North America**

PARAMETER	DESCRIPTION	LCIA METHOD	UNIT
GWP	Global warming potential, fossil	IPCCC AR5 (2013)	kg CO <sub>2</sub> eq.
ODP	Stratospheric ozone layer depletion potential	TRACI 2.1	kg CFC 11 eq.
AP	Land and water acidification potential	TRACI 2.1	kg SO <sub>2</sub> eq.
EP	Eutrophication potential	TRACI 2.1	kg N eq.
SFP	Tropospheric ozone photochemical oxidant (smog) formation potential	TRACI 2.1	kg O <sub>3</sub> eq.
ADP <sub>f</sub>	Abiotic resource potential for fossil resources	CML 2001	MJ



# ENVIRONMENTAL PRODUCT DECLARATION



BEHR PRO® Pre-Catalyzed Waterborne Epoxy

According to ISO 14025,  
ISO 21930

**Table 9. Total LCIA results for each paint product, per 1 m<sup>2</sup> for 60 years by design life**

SKU	GWP KG CO <sub>2</sub> EQ.	AP KG SO <sub>2</sub> EQ.	EP KG N EQ.	ODP KG CFC-11 EQ.	SFP KG O <sub>3</sub> EQ.	ADPF MJ
HP140 Int	2.71E+00	4.89E-02	7.08E-04	9.00E-14	1.05E-01	5.02E+01
HP140 Ext	1.90E+00	3.42E-02	4.96E-04	6.30E-14	7.33E-02	3.51E+01
HP143 Int	1.87E+00	3.90E-03	4.97E-04	4.83E-14	5.95E-02	4.27E+01
HP143 Ext	1.31E+00	2.73E-03	3.48E-04	3.38E-14	4.17E-02	2.99E+01
HP150 Int	2.83E+00	4.49E-02	7.04E-04	9.29E-14	1.06E-01	5.47E+01
HP150 Ext	1.98E+00	3.15E-02	4.93E-04	6.50E-14	7.39E-02	3.83E+01
HP153 Int	2.14E+00	4.46E-03	5.19E-04	5.72E-14	6.62E-02	4.96E+01
HP153 Ext	1.50E+00	3.12E-03	3.64E-04	4.00E-14	4.64E-02	3.47E+01

**Table 10. GWP LCIA results for each paint product, per 1 m<sup>2</sup> for 60 years by design life (kg CO<sub>2</sub> eq.)**

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
HP140 Int	2.24E+00	4.27E-01	0.00E+00	3.83E-02	2.71E+00
HP140 Ext	1.57E+00	2.99E-01	0.00E+00	2.68E-02	1.90E+00
HP143 Int	1.23E+00	6.09E-01	0.00E+00	3.36E-02	1.87E+00
HP143 Ext	8.60E-01	4.27E-01	0.00E+00	2.35E-02	1.31E+00
HP150 Int	2.38E+00	4.08E-01	0.00E+00	3.67E-02	2.83E+00
HP150 Ext	1.67E+00	2.86E-01	0.00E+00	2.57E-02	1.98E+00
HP153 Int	1.52E+00	5.87E-01	0.00E+00	3.18E-02	2.14E+00
HP153 Ext	1.06E+00	4.11E-01	0.00E+00	2.23E-02	1.50E+00

**Table 11. AP LCIA results for each paint product, per 1 m<sup>2</sup> for 60 years by design life (kg SO<sub>2</sub> eq.)**

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
HP140 Int	4.77E-02	9.46E-04	0.00E+00	1.63E-04	4.89E-02
HP140 Ext	3.34E-02	6.62E-04	0.00E+00	1.14E-04	3.42E-02
HP143 Int	2.57E-03	1.19E-03	0.00E+00	1.42E-04	3.90E-03
HP143 Ext	1.80E-03	8.31E-04	0.00E+00	9.91E-05	2.73E-03



# ENVIRONMENTAL PRODUCT DECLARATION



BEHR PRO® Pre-Catalyzed Waterborne Epoxy

According to ISO 14025,  
ISO 21930

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
HP150 Int	4.39E-02	9.01E-04	0.00E+00	1.54E-04	4.49E-02
HP150 Ext	3.07E-02	6.30E-04	0.00E+00	1.08E-04	3.15E-02
HP153 Int	3.20E-03	1.13E-03	0.00E+00	1.33E-04	4.46E-03
HP153 Ext	2.24E-03	7.94E-04	0.00E+00	9.29E-05	3.12E-03

Table 12. EP LCIA results for each paint product, per 1 m<sup>2</sup> for 60 years by design life (kg N eq.)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
HP140 Int	3.53E-04	1.24E-04	0.00E+00	2.32E-04	7.08E-04
HP140 Ext	2.47E-04	8.65E-05	0.00E+00	1.62E-04	4.96E-04
HP143 Int	1.80E-04	1.16E-04	0.00E+00	2.01E-04	4.97E-04
HP143 Ext	1.26E-04	8.15E-05	0.00E+00	1.41E-04	3.48E-04
HP150 Int	3.69E-04	1.17E-04	0.00E+00	2.19E-04	7.04E-04
HP150 Ext	2.58E-04	8.17E-05	0.00E+00	1.53E-04	4.93E-04
HP153 Int	2.23E-04	1.09E-04	0.00E+00	1.87E-04	5.19E-04
HP153 Ext	1.56E-04	7.63E-05	0.00E+00	1.31E-04	3.64E-04

Table 13. ODP LCIA results for each paint product, per 1 m<sup>2</sup> for 60 years by design life (kg CFC-11 eq.)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
HP140 Int	8.65E-14	2.58E-15	0.00E+00	9.02E-16	9.00E-14
HP140 Ext	6.06E-14	1.81E-15	0.00E+00	6.31E-16	6.30E-14
HP143 Int	4.14E-14	6.14E-15	0.00E+00	7.63E-16	4.83E-14
HP143 Ext	2.90E-14	4.30E-15	0.00E+00	5.34E-16	3.38E-14
HP150 Int	8.95E-14	2.53E-15	0.00E+00	8.28E-16	9.29E-14
HP150 Ext	6.27E-14	1.77E-15	0.00E+00	5.80E-16	6.50E-14
HP153 Int	5.04E-14	6.04E-15	0.00E+00	6.87E-16	5.72E-14
HP153 Ext	3.53E-14	4.23E-15	0.00E+00	4.81E-16	4.00E-14



# ENVIRONMENTAL PRODUCT DECLARATION



BEHR PRO® Pre-Catalyzed Waterborne Epoxy

According to ISO 14025,  
ISO 21930

**Table 14. SFP LCIA results for each paint product, per 1 m<sup>2</sup> for 60 years by design life (kg O<sub>3</sub> eq.)**

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
HP140 Int	8.35E-02	1.83E-02	5.32E-10	2.92E-03	1.05E-01
HP140 Ext	5.85E-02	1.28E-02	3.72E-10	2.05E-03	7.33E-02
HP143 Int	3.87E-02	1.82E-02	5.32E-10	2.54E-03	5.95E-02
HP143 Ext	2.71E-02	1.28E-02	3.72E-10	1.78E-03	4.17E-02
HP150 Int	8.55E-02	1.73E-02	5.32E-10	2.77E-03	1.06E-01
HP150 Ext	5.99E-02	1.21E-02	3.72E-10	1.94E-03	7.39E-02
HP153 Int	4.67E-02	1.72E-02	5.32E-10	2.38E-03	6.62E-02
HP153 Ext	3.27E-02	1.20E-02	3.72E-10	1.67E-03	4.64E-02

**Table 15. ADP<sub>f</sub> LCIA results for each paint product, per 1 m<sup>2</sup> for 60 years by design life (MJ)**

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
HP140 Int	4.30E+01	7.03E+00	0.00E+00	1.35E-01	5.02E+01
HP140 Ext	3.01E+01	4.92E+00	0.00E+00	9.44E-02	3.51E+01
HP143 Int	2.99E+01	1.28E+01	0.00E+00	1.04E-01	4.27E+01
HP143 Ext	2.09E+01	8.93E+00	0.00E+00	7.29E-02	2.99E+01
HP150 Int	4.78E+01	6.80E+00	0.00E+00	1.11E-01	5.47E+01
HP150 Ext	3.35E+01	4.76E+00	0.00E+00	7.79E-02	3.83E+01
HP153 Int	3.71E+01	1.24E+01	0.00E+00	8.06E-02	4.96E+01
HP153 Ext	2.60E+01	8.69E+00	0.00E+00	5.64E-02	3.47E+01

**Table 16. Total LCIA results for each paint product, per 1 m<sup>2</sup> for 60 years by market life**

SKU	GWP KG CO <sub>2</sub> EQ.	AP KG SO <sub>2</sub> EQ.	EP KG N EQ.	ODP KG CFC 11 EQ.	SFP KG O <sub>3</sub> EQ.	ADP <sub>f</sub> MJ
HP140 Int	3.79E+00	6.84E-02	9.92E-04	1.26E-13	1.47E-01	7.03E+01
HP140 Ext	1.90E+00	3.42E-02	4.96E-04	6.30E-14	7.33E-02	3.51E+01
HP143 Int	2.62E+00	5.46E-03	6.96E-04	6.76E-14	8.33E-02	5.98E+01



# ENVIRONMENTAL PRODUCT DECLARATION



BEHR PRO® Pre-Catalyzed Waterborne Epoxy

According to ISO 14025,  
ISO 21930

SKU	GWP KG CO <sub>2</sub> EQ.	AP KG SO <sub>2</sub> EQ.	EP KG N EQ.	ODP KG CFC 11 EQ.	SFP KG O <sub>3</sub> EQ.	ADPF MJ
HP143 Ext	1.31E+00	2.73E-03	3.48E-04	3.38E-14	4.17E-02	2.99E+01
HP150 Int	3.96E+00	6.29E-02	9.86E-04	1.30E-13	1.48E-01	7.66E+01
HP150 Ext	1.98E+00	3.15E-02	4.93E-04	6.50E-14	7.39E-02	3.83E+01
HP153 Int	2.99E+00	6.25E-03	7.27E-04	8.00E-14	9.27E-02	6.95E+01
HP153 Ext	1.50E+00	3.12E-03	3.64E-04	4.00E-14	4.64E-02	3.47E+01

**Table 17. GWP LCIA results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (kg CO<sub>2</sub> eq.)**

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
HP140 Int	3.14E+00	5.97E-01	0.00E+00	5.36E-02	3.79E+00
HP140 Ext	1.57E+00	2.99E-01	0.00E+00	2.68E-02	1.90E+00
HP143 Int	1.72E+00	8.53E-01	0.00E+00	4.71E-02	2.62E+00
HP143 Ext	8.60E-01	4.27E-01	0.00E+00	2.35E-02	1.31E+00
HP150 Int	3.34E+00	5.71E-01	0.00E+00	5.13E-02	3.96E+00
HP150 Ext	1.67E+00	2.86E-01	0.00E+00	2.57E-02	1.98E+00
HP153 Int	2.13E+00	8.22E-01	0.00E+00	4.45E-02	2.99E+00
HP153 Ext	1.06E+00	4.11E-01	0.00E+00	2.23E-02	1.50E+00

**Table 18. AP LCIA results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (kg SO<sub>2</sub> eq.)**

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
HP140 Int	6.68E-02	1.32E-03	0.00E+00	2.28E-04	6.84E-02
HP140 Ext	3.34E-02	6.62E-04	0.00E+00	1.14E-04	3.42E-02
HP143 Int	3.60E-03	1.66E-03	0.00E+00	1.98E-04	5.46E-03
HP143 Ext	1.80E-03	8.31E-04	0.00E+00	9.91E-05	2.73E-03
HP150 Int	6.14E-02	1.26E-03	0.00E+00	2.16E-04	6.29E-02
HP150 Ext	3.07E-02	6.30E-04	0.00E+00	1.08E-04	3.15E-02
HP153 Int	4.48E-03	1.59E-03	0.00E+00	1.86E-04	6.25E-03
HP153 Ext	2.24E-03	7.94E-04	0.00E+00	9.29E-05	3.12E-03



# ENVIRONMENTAL PRODUCT DECLARATION



BEHR PRO® Pre-Catalyzed Waterborne Epoxy

According to ISO 14025,  
ISO 21930

**Table 19. EP LCIA results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (kg N eq.)**

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
HP140 Int	4.95E-04	1.73E-04	0.00E+00	3.24E-04	9.92E-04
HP140 Ext	2.47E-04	8.65E-05	0.00E+00	1.62E-04	4.96E-04
HP143 Int	2.52E-04	1.63E-04	0.00E+00	2.81E-04	6.96E-04
HP143 Ext	1.26E-04	8.15E-05	0.00E+00	1.41E-04	3.48E-04
HP150 Int	5.16E-04	1.63E-04	0.00E+00	3.06E-04	9.86E-04
HP150 Ext	2.58E-04	8.17E-05	0.00E+00	1.53E-04	4.93E-04
HP153 Int	3.13E-04	1.53E-04	0.00E+00	2.62E-04	7.27E-04
HP153 Ext	1.56E-04	7.63E-05	0.00E+00	1.31E-04	3.64E-04

**Table 20. ODP LCIA results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (kg CFC-11 eq.)**

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
HP140 Int	1.21E-13	3.61E-15	0.00E+00	1.26E-15	1.26E-13
HP140 Ext	6.06E-14	1.81E-15	0.00E+00	6.31E-16	6.30E-14
HP143 Int	5.80E-14	8.60E-15	0.00E+00	1.07E-15	6.76E-14
HP143 Ext	2.90E-14	4.30E-15	0.00E+00	5.34E-16	3.38E-14
HP150 Int	1.25E-13	3.54E-15	0.00E+00	1.16E-15	1.30E-13
HP150 Ext	6.27E-14	1.77E-15	0.00E+00	5.80E-16	6.50E-14
HP153 Int	7.06E-14	8.46E-15	0.00E+00	9.62E-16	8.00E-14
HP153 Ext	3.53E-14	4.23E-15	0.00E+00	4.81E-16	4.00E-14

**Table 21. SFP LCIA results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (kg O<sub>3</sub> eq.)**

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
HP140 Int	1.17E-01	2.56E-02	7.45E-10	4.09E-03	1.47E-01
HP140 Ext	5.85E-02	1.28E-02	3.72E-10	2.05E-03	7.33E-02
HP143 Int	5.42E-02	2.55E-02	7.45E-10	3.56E-03	8.33E-02
HP143 Ext	2.71E-02	1.28E-02	3.72E-10	1.78E-03	4.17E-02
HP150 Int	1.20E-01	2.42E-02	7.45E-10	3.88E-03	1.48E-01





# ENVIRONMENTAL PRODUCT DECLARATION



BEHR PRO® Pre-Catalyzed Waterborne Epoxy

According to ISO 14025,  
ISO 21930

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
HP150 Ext	5.99E-02	1.21E-02	3.72E-10	1.94E-03	7.39E-02
HP153 Int	6.54E-02	2.40E-02	7.45E-10	3.33E-03	9.27E-02
HP153 Ext	3.27E-02	1.20E-02	3.72E-10	1.67E-03	4.64E-02

**Table 22. ADPf LCIA results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (MJ)**

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
HP140 Int	6.02E+01	9.85E+00	0.00E+00	1.89E-01	7.03E+01
HP140 Ext	3.01E+01	4.92E+00	0.00E+00	9.44E-02	3.51E+01
HP143 Int	4.18E+01	1.79E+01	0.00E+00	1.46E-01	5.98E+01
HP143 Ext	2.09E+01	8.93E+00	0.00E+00	7.29E-02	2.99E+01
HP150 Int	6.69E+01	9.51E+00	0.00E+00	1.56E-01	7.66E+01
HP150 Ext	3.35E+01	4.76E+00	0.00E+00	7.79E-02	3.83E+01
HP153 Int	5.20E+01	1.74E+01	0.00E+00	1.13E-01	6.95E+01
HP153 Ext	2.60E+01	8.69E+00	0.00E+00	5.64E-02	3.47E+01





BEHR PRO® Pre-Catalyzed Waterborne Epoxy

According to ISO 14025,  
ISO 21930

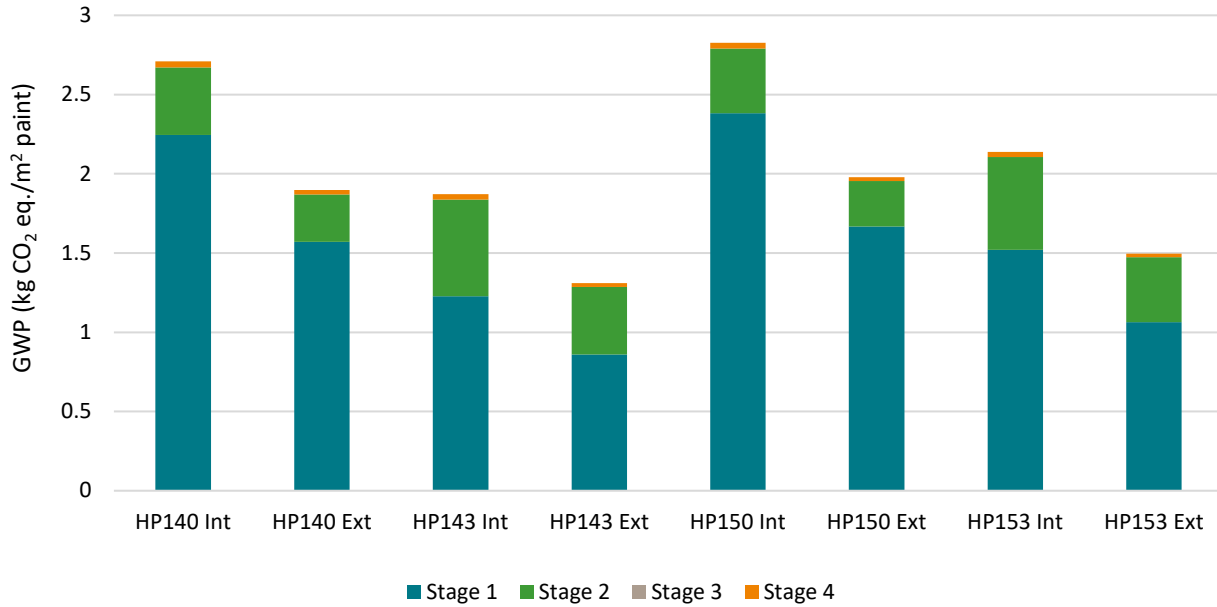


Figure 3: GWP results by stage by design life

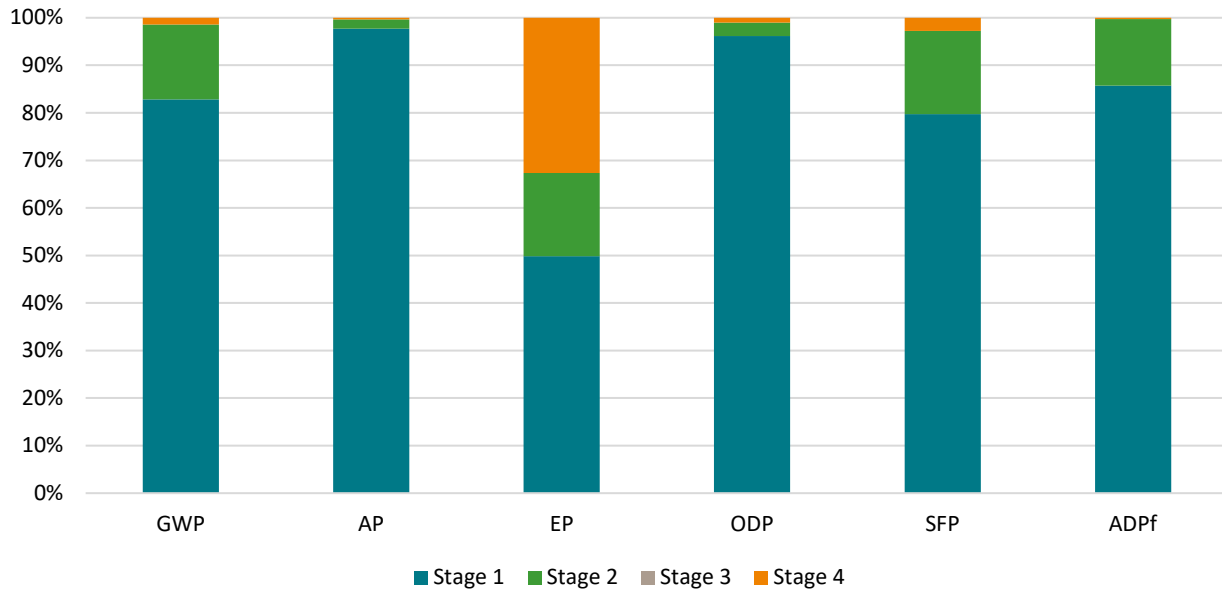


Figure 4. LCIA contribution results for HP140 Int



# ENVIRONMENTAL PRODUCT DECLARATION



BEHR PRO® Pre-Catalyzed Waterborne Epoxy

According to ISO 14025,  
ISO 21930

## 3.2. Life Cycle Inventory Results

**Table 23. Total resource use results for each paint product, per 1 m<sup>2</sup> for 60 years by design life**

SKU	RPR <sub>E</sub> MJ	RPR <sub>M</sub> MJ	NRPR <sub>E</sub> MJ	NRPR <sub>M</sub> MJ	SM KG	RSF MJ	NRSF MJ	RE MJ	FW M <sup>3</sup>
HP140 Int	3.72E+00	3.10E-01	4.58E+01	7.12E+00	3.93E-04	0	0	0	1.64E-02
HP140 Ext	2.60E+00	2.17E-01	3.21E+01	4.99E+00	2.75E-04	0	0	0	1.15E-02
HP143 Int	2.15E+00	2.82E-01	3.69E+01	7.12E+00	3.58E-04	0	0	0	9.16E-03
HP143 Ext	1.51E+00	1.97E-01	2.58E+01	4.99E+00	2.51E-04	0	0	0	6.41E-03
HP150 Int	3.81E+00	3.09E-01	4.87E+01	8.74E+00	3.93E-04	0	0	0	1.66E-02
HP150 Ext	2.67E+00	2.16E-01	3.41E+01	6.12E+00	2.75E-04	0	0	0	1.16E-02
HP153 Int	2.48E+00	2.79E-01	4.22E+01	8.90E+00	3.55E-04	0	0	0	1.04E-02
HP153 Ext	1.74E+00	1.96E-01	2.96E+01	6.23E+00	2.48E-04	0	0	0	7.29E-03

**Table 24. RPR<sub>E</sub> results for each paint product, for their design life (MJ)**

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP140 Int	3.35E+00	3.22E-01	0.00E+00	4.23E-02	3.72E+00
HP140 Ext	2.35E+00	2.26E-01	0.00E+00	2.96E-02	2.60E+00
HP143 Int	1.68E+00	4.35E-01	0.00E+00	3.63E-02	2.15E+00
HP143 Ext	1.18E+00	3.04E-01	0.00E+00	2.54E-02	1.51E+00
HP150 Int	3.47E+00	3.08E-01	0.00E+00	3.95E-02	3.81E+00
HP150 Ext	2.43E+00	2.15E-01	0.00E+00	2.76E-02	2.67E+00
HP153 Int	2.03E+00	4.17E-01	0.00E+00	3.33E-02	2.48E+00
HP153 Ext	1.42E+00	2.92E-01	0.00E+00	2.33E-02	1.74E+00

**Table 25. RPR<sub>M</sub> results for each paint product, for their design life (MJ)**

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP140 Int	3.10E-01	0.00E+00	0.00E+00	0.00E+00	3.10E-01
HP140 Ext	2.17E-01	0.00E+00	0.00E+00	0.00E+00	2.17E-01
HP143 Int	2.82E-01	0.00E+00	0.00E+00	0.00E+00	2.82E-01
HP143 Ext	1.97E-01	0.00E+00	0.00E+00	0.00E+00	1.97E-01
HP150 Int	3.09E-01	0.00E+00	0.00E+00	0.00E+00	3.09E-01



# ENVIRONMENTAL PRODUCT DECLARATION



BEHR PRO® Pre-Catalyzed Waterborne Epoxy

According to ISO 14025,  
ISO 21930

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP150 Ext	2.16E-01	0.00E+00	0.00E+00	0.00E+00	2.16E-01
HP153 Int	2.79E-01	0.00E+00	0.00E+00	0.00E+00	2.79E-01
HP153 Ext	1.96E-01	0.00E+00	0.00E+00	0.00E+00	1.96E-01

**Table 26. NRPR<sub>e</sub> results for each paint product, for their design life (MJ)**

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP140 Int	3.85E+01	7.15E+00	0.00E+00	1.32E-01	4.58E+01
HP140 Ext	2.70E+01	5.00E+00	0.00E+00	9.22E-02	3.21E+01
HP143 Int	2.38E+01	1.30E+01	0.00E+00	1.01E-01	3.69E+01
HP143 Ext	1.67E+01	9.12E+00	0.00E+00	7.04E-02	2.58E+01
HP150 Int	4.17E+01	6.91E+00	0.00E+00	1.07E-01	4.87E+01
HP150 Ext	2.92E+01	4.84E+00	0.00E+00	7.51E-02	3.41E+01
HP153 Int	2.95E+01	1.27E+01	0.00E+00	7.64E-02	4.22E+01
HP153 Ext	2.06E+01	8.88E+00	0.00E+00	5.35E-02	2.96E+01

**Table 27. NRPR<sub>m</sub> results for each paint product, for their design life (MJ)**

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP140 Int	7.12E+00	0.00E+00	0.00E+00	0.00E+00	7.12E+00
HP140 Ext	4.99E+00	0.00E+00	0.00E+00	0.00E+00	4.99E+00
HP143 Int	7.12E+00	0.00E+00	0.00E+00	0.00E+00	7.12E+00
HP143 Ext	4.99E+00	0.00E+00	0.00E+00	0.00E+00	4.99E+00
HP150 Int	8.74E+00	0.00E+00	0.00E+00	0.00E+00	8.74E+00
HP150 Ext	6.12E+00	0.00E+00	0.00E+00	0.00E+00	6.12E+00
HP153 Int	8.90E+00	0.00E+00	0.00E+00	0.00E+00	8.90E+00
HP153 Ext	6.23E+00	0.00E+00	0.00E+00	0.00E+00	6.23E+00

**Table 28. SM results for each paint product, for their design life (kg)**

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP140 Int	3.93E-04	0.00E+00	0.00E+00	0.00E+00	3.93E-04
HP140 Ext	2.75E-04	0.00E+00	0.00E+00	0.00E+00	2.75E-04
HP143 Int	3.58E-04	0.00E+00	0.00E+00	0.00E+00	3.58E-04



# ENVIRONMENTAL PRODUCT DECLARATION



BEHR PRO® Pre-Catalyzed Waterborne Epoxy

According to ISO 14025,  
ISO 21930

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP143 Ext	2.51E-04	0.00E+00	0.00E+00	0.00E+00	2.51E-04
HP150 Int	3.93E-04	0.00E+00	0.00E+00	0.00E+00	3.93E-04
HP150 Ext	2.75E-04	0.00E+00	0.00E+00	0.00E+00	2.75E-04
HP153 Int	3.55E-04	0.00E+00	0.00E+00	0.00E+00	3.55E-04
HP153 Ext	2.48E-04	0.00E+00	0.00E+00	0.00E+00	2.48E-04

**Table 29. FW results for each paint product, for their design life (m<sup>3</sup>)**

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP140 Int	1.46E-02	1.87E-03	0.00E+00	1.39E-05	1.64E-02
HP140 Ext	1.02E-02	1.31E-03	0.00E+00	9.74E-06	1.15E-02
HP143 Int	6.04E-03	3.11E-03	0.00E+00	1.03E-05	9.16E-03
HP143 Ext	4.23E-03	2.18E-03	0.00E+00	7.19E-06	6.41E-03
HP150 Int	1.48E-02	1.80E-03	0.00E+00	1.09E-05	1.66E-02
HP150 Ext	1.04E-02	1.26E-03	0.00E+00	7.62E-06	1.16E-02
HP153 Int	7.39E-03	3.02E-03	0.00E+00	7.29E-06	1.04E-02
HP153 Ext	5.17E-03	2.11E-03	0.00E+00	5.10E-06	7.29E-03

**Table 30. Total Resource use results for each paint product, per 1 m<sup>2</sup> for 60 years by market life**

SKU	RPR <sub>E</sub> MJ	RPR <sub>M</sub> MJ	NRPR <sub>E</sub> MJ	NRPR <sub>M</sub> MJ	SM KG	RSF MJ	NRSF MJ	RE MJ	FW M <sup>3</sup>
HP140 Int	5.20E+00	4.34E-01	6.42E+01	9.97E+00	5.51E-04	0	0	0	2.30E-02
HP140 Ext	2.60E+00	2.17E-01	3.21E+01	4.99E+00	2.75E-04	0	0	0	1.15E-02
HP143 Int	3.01E+00	3.95E-01	5.17E+01	9.97E+00	5.01E-04	0	0	0	1.28E-02
HP143 Ext	1.51E+00	1.97E-01	2.58E+01	4.99E+00	2.51E-04	0	0	0	6.41E-03
HP150 Int	5.34E+00	4.33E-01	6.82E+01	1.22E+01	5.50E-04	0	0	0	2.33E-02
HP150 Ext	2.67E+00	2.16E-01	3.41E+01	6.12E+00	2.75E-04	0	0	0	1.16E-02
HP153 Int	3.48E+00	3.91E-01	5.91E+01	1.25E+01	4.97E-04	0	0	0	1.46E-02
HP153 Ext	1.74E+00	1.96E-01	2.96E+01	6.23E+00	2.48E-04	0	0	0	7.29E-03



# ENVIRONMENTAL PRODUCT DECLARATION



BEHR PRO® Pre-Catalyzed Waterborne Epoxy

According to ISO 14025,  
ISO 21930

**Table 31. RPR<sub>e</sub> results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (MJ)**

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP140 Int	4.69E+00	4.51E-01	0.00E+00	5.92E-02	5.20E+00
HP140 Ext	2.35E+00	2.26E-01	0.00E+00	2.96E-02	2.60E+00
HP143 Int	2.35E+00	6.09E-01	0.00E+00	5.08E-02	3.01E+00
HP143 Ext	1.18E+00	3.04E-01	0.00E+00	2.54E-02	1.51E+00
HP150 Int	4.85E+00	4.31E-01	0.00E+00	5.52E-02	5.34E+00
HP150 Ext	2.43E+00	2.15E-01	0.00E+00	2.76E-02	2.67E+00
HP153 Int	2.85E+00	5.84E-01	0.00E+00	4.66E-02	3.48E+00
HP153 Ext	1.42E+00	2.92E-01	0.00E+00	2.33E-02	1.74E+00

**Table 32. RPR<sub>m</sub> results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (MJ)**

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP140 Int	4.34E-01	0.00E+00	0.00E+00	0.00E+00	4.34E-01
HP140 Ext	2.17E-01	0.00E+00	0.00E+00	0.00E+00	2.17E-01
HP143 Int	3.95E-01	0.00E+00	0.00E+00	0.00E+00	3.95E-01
HP143 Ext	1.97E-01	0.00E+00	0.00E+00	0.00E+00	1.97E-01
HP150 Int	4.33E-01	0.00E+00	0.00E+00	0.00E+00	4.33E-01
HP150 Ext	2.16E-01	0.00E+00	0.00E+00	0.00E+00	2.16E-01
HP153 Int	3.91E-01	0.00E+00	0.00E+00	0.00E+00	3.91E-01
HP153 Ext	1.96E-01	0.00E+00	0.00E+00	0.00E+00	1.96E-01

**Table 33. NRPR<sub>e</sub> results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (MJ)**

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP140 Int	5.40E+01	1.00E+01	0.00E+00	1.84E-01	6.42E+01
HP140 Ext	2.70E+01	5.00E+00	0.00E+00	9.22E-02	3.21E+01
HP143 Int	3.33E+01	1.82E+01	0.00E+00	1.41E-01	5.17E+01
HP143 Ext	1.67E+01	9.12E+00	0.00E+00	7.04E-02	2.58E+01
HP150 Int	5.84E+01	9.67E+00	0.00E+00	1.50E-01	6.82E+01
HP150 Ext	2.92E+01	4.84E+00	0.00E+00	7.51E-02	3.41E+01
HP153 Int	4.12E+01	1.78E+01	0.00E+00	1.07E-01	5.91E+01
HP153 Ext	2.06E+01	8.88E+00	0.00E+00	5.35E-02	2.96E+01



# ENVIRONMENTAL PRODUCT DECLARATION



BEHR PRO® Pre-Catalyzed Waterborne Epoxy

According to ISO 14025,  
ISO 21930

**Table 34. NRPRm results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (MJ)**

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP140 Int	9.97E+00	0.00E+00	0.00E+00	0.00E+00	9.97E+00
HP140 Ext	4.99E+00	0.00E+00	0.00E+00	0.00E+00	4.99E+00
HP143 Int	9.97E+00	0.00E+00	0.00E+00	0.00E+00	9.97E+00
HP143 Ext	4.99E+00	0.00E+00	0.00E+00	0.00E+00	4.99E+00
HP150 Int	1.22E+01	0.00E+00	0.00E+00	0.00E+00	1.22E+01
HP150 Ext	6.12E+00	0.00E+00	0.00E+00	0.00E+00	6.12E+00
HP153 Int	1.25E+01	0.00E+00	0.00E+00	0.00E+00	1.25E+01
HP153 Ext	6.23E+00	0.00E+00	0.00E+00	0.00E+00	6.23E+00

**Table 35. SM results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (kg)**

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP140 Int	5.51E-04	0.00E+00	0.00E+00	0.00E+00	5.51E-04
HP140 Ext	2.75E-04	0.00E+00	0.00E+00	0.00E+00	2.75E-04
HP143 Int	5.01E-04	0.00E+00	0.00E+00	0.00E+00	5.01E-04
HP143 Ext	2.51E-04	0.00E+00	0.00E+00	0.00E+00	2.51E-04
HP150 Int	5.50E-04	0.00E+00	0.00E+00	0.00E+00	5.50E-04
HP150 Ext	2.75E-04	0.00E+00	0.00E+00	0.00E+00	2.75E-04
HP153 Int	4.97E-04	0.00E+00	0.00E+00	0.00E+00	4.97E-04
HP153 Ext	2.48E-04	0.00E+00	0.00E+00	0.00E+00	2.48E-04

**Table 36. FW results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (m<sup>3</sup>)**

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP140 Int	2.04E-02	2.61E-03	0.00E+00	1.95E-05	2.30E-02
HP140 Ext	1.02E-02	1.31E-03	0.00E+00	9.74E-06	1.15E-02
HP143 Int	8.46E-03	4.36E-03	0.00E+00	1.44E-05	1.28E-02
HP143 Ext	4.23E-03	2.18E-03	0.00E+00	7.19E-06	6.41E-03
HP150 Int	2.08E-02	2.52E-03	0.00E+00	1.52E-05	2.33E-02
HP150 Ext	1.04E-02	1.26E-03	0.00E+00	7.62E-06	1.16E-02
HP153 Int	1.03E-02	4.23E-03	0.00E+00	1.02E-05	1.46E-02
HP153 Ext	5.17E-03	2.11E-03	0.00E+00	5.10E-06	7.29E-03



# ENVIRONMENTAL PRODUCT DECLARATION



BEHR PRO® Pre-Catalyzed Waterborne Epoxy

According to ISO 14025,  
ISO 21930

**Table 37. Total output and waste results for each paint product, per 1 m<sup>2</sup> for 60 years by design life**

SKU	HWD %	NHWD %
HP140 Int	0.02%	99.98%
HP140 Ext	0.02%	99.98%
HP143 Int	0.02%	99.98%
HP143 Ext	0.02%	99.98%
HP150 Int	0.02%	99.98%
HP150 Ext	0.02%	99.98%
HP153 Int	0.02%	99.98%
HP153 Ext	0.02%	99.98%

**Table 38. Waste results for each paint product, per 1 m<sup>2</sup> for 60 years by design life**

SKU	Waste	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP140 Int	HWD	0.90%	0.00%	0.00%	0.00%	0.02%
	NHWD	99.10%	0.00%	0.00%	100.00%	99.98%
HP140 Ext	HWD	0.90%	0.00%	0.00%	0.00%	0.02%
	NHWD	99.10%	0.00%	0.00%	100.00%	99.98%
HP143 Int	HWD	0.90%	0.00%	0.00%	0.00%	0.02%
	NHWD	99.10%	0.00%	0.00%	100.00%	99.98%
HP143 Ext	HWD	0.90%	0.00%	0.00%	0.00%	0.02%
	NHWD	99.10%	0.00%	0.00%	100.00%	99.98%
HP150 Int	HWD	0.90%	0.00%	0.00%	0.00%	0.02%
	NHWD	99.10%	0.00%	0.00%	100.00%	99.98%
HP150 Ext	HWD	0.90%	0.00%	0.00%	0.00%	0.02%
	NHWD	99.10%	0.00%	0.00%	100.00%	99.98%
HP153 Int	HWD	0.90%	0.00%	0.00%	0.00%	0.02%
	NHWD	99.10%	0.00%	0.00%	100.00%	99.98%
HP153 Ext	HWD	0.90%	0.00%	0.00%	0.00%	0.02%
	NHWD	99.10%	0.00%	0.00%	100.00%	99.98%





# ENVIRONMENTAL PRODUCT DECLARATION



BEHR PRO® Pre-Catalyzed Waterborne Epoxy

According to ISO 14025,  
ISO 21930

**Table 39. Total output and waste results for each paint product, per 1 m<sup>2</sup> for 60 years by market life**

SKU	HWD %	NHWD %
HP140 Int	0.02%	99.98%
HP140 Ext	0.02%	99.98%
HP143 Int	0.02%	99.98%
HP143 Ext	0.02%	99.98%
HP150 Int	0.02%	99.98%
HP150 Ext	0.02%	99.98%
HP153 Int	0.02%	99.98%
HP153 Ext	0.02%	99.98%

**Table 40. Waste results for each paint product, per 1 m<sup>2</sup> for 60 years by market life**

SKU	Waste	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP140 Int	HWD	0.90%	0.00%	0.00%	0.00%	0.02%
	NHWD	99.10%	0.00%	0.00%	100.00%	99.98%
HP140 Ext	HWD	0.90%	0.00%	0.00%	0.00%	0.02%
	NHWD	99.10%	0.00%	0.00%	100.00%	99.98%
HP143 Int	HWD	0.90%	0.00%	0.00%	0.00%	0.02%
	NHWD	99.10%	0.00%	0.00%	100.00%	99.98%
HP143 Ext	HWD	0.90%	0.00%	0.00%	0.00%	0.02%
	NHWD	99.10%	0.00%	0.00%	100.00%	99.98%
HP150 Int	HWD	0.90%	0.00%	0.00%	0.00%	0.02%
	NHWD	99.10%	0.00%	0.00%	100.00%	99.98%
HP150 Ext	HWD	0.90%	0.00%	0.00%	0.00%	0.02%
	NHWD	99.10%	0.00%	0.00%	100.00%	99.98%
HP153 Int	HWD	0.90%	0.00%	0.00%	0.00%	0.02%
	NHWD	99.10%	0.00%	0.00%	100.00%	99.98%
HP153 Ext	HWD	0.90%	0.00%	0.00%	0.00%	0.02%
	NHWD	99.10%	0.00%	0.00%	100.00%	99.98%



# ENVIRONMENTAL PRODUCT DECLARATION



BEHR PRO® Pre-Catalyzed Waterborne Epoxy

According to ISO 14025,  
ISO 21930

**Table 41. Energy resource use results for each paint product, per 1 m<sup>2</sup> for 60 years by design life**

SKU	BIO-ENERGY	FOSSIL ENERGY	HYDRO/WIND ENERGY	NUCLEAR ENERGY	OTHER ENERGY	NON-RENEWABLE RESOURCES	RENEWABLE RESOURCES
	MJ	MJ	MJ	MJ	MJ	KG	KG
HP140 Int	6.19E-09	5.02E+01	1.46E+00	2.75E+00	2.56E+00	1.37E+00	-1.01E-07
HP140 Ext	4.34E-09	3.51E+01	1.02E+00	1.92E+00	1.79E+00	9.59E-01	-7.07E-08
HP143 Int	5.29E-09	4.27E+01	7.42E-01	1.29E+00	1.69E+00	1.18E+00	-8.96E-08
HP143 Ext	3.71E-09	2.99E+01	5.20E-01	9.06E-01	1.18E+00	8.23E-01	-6.27E-08
HP150 Int	6.21E-09	5.47E+01	1.49E+00	2.75E+00	2.64E+00	1.48E+00	-1.01E-07
HP150 Ext	4.35E-09	3.83E+01	1.04E+00	1.93E+00	1.85E+00	1.03E+00	-7.08E-08
HP153 Int	5.34E-09	4.96E+01	8.65E-01	1.49E+00	1.90E+00	1.34E+00	-8.94E-08
HP153 Ext	3.74E-09	3.47E+01	6.05E-01	1.04E+00	1.33E+00	9.41E-01	-6.26E-08

**Table 42. Bio-energy results for each paint product, per 1 m<sup>2</sup> for 60 years by design life (MJ)**

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP140 Int	5.52E-09	-1.06E-11	0.00E+00	6.84E-10	6.19E-09
HP140 Ext	3.86E-09	-7.43E-12	0.00E+00	4.79E-10	4.34E-09
HP143 Int	4.68E-09	-1.05E-11	0.00E+00	6.22E-10	5.29E-09
HP143 Ext	3.28E-09	-7.34E-12	0.00E+00	4.35E-10	3.71E-09
HP150 Int	5.54E-09	-1.00E-11	0.00E+00	6.82E-10	6.21E-09
HP150 Ext	3.88E-09	-7.03E-12	0.00E+00	4.77E-10	4.35E-09
HP153 Int	4.73E-09	-9.86E-12	0.00E+00	6.16E-10	5.34E-09
HP153 Ext	3.31E-09	-6.90E-12	0.00E+00	4.31E-10	3.74E-09

**Table 43. Fossil energy results for each paint product, per 1 m<sup>2</sup> for 60 years by design life (MJ)**

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP140 Int	4.30E+01	7.03E+00	0.00E+00	1.35E-01	5.02E+01
HP140 Ext	3.01E+01	4.92E+00	0.00E+00	9.45E-02	3.51E+01
HP143 Int	2.99E+01	1.28E+01	0.00E+00	1.04E-01	4.27E+01
HP143 Ext	2.09E+01	8.93E+00	0.00E+00	7.29E-02	2.99E+01
HP150 Int	4.78E+01	6.80E+00	0.00E+00	1.11E-01	5.47E+01





BEHR PRO® Pre-Catalyzed Waterborne Epoxy

According to ISO 14025,  
ISO 21930

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP150 Ext	3.35E+01	4.76E+00	0.00E+00	7.79E-02	3.83E+01
HP153 Int	3.71E+01	1.24E+01	0.00E+00	8.06E-02	4.96E+01
HP153 Ext	2.60E+01	8.69E+00	0.00E+00	5.64E-02	3.47E+01

Table 44. Hydro/ Wind energy results each paint product, per 1 m<sup>2</sup> for 60 years by design life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP140 Int	1.40E+00	5.77E-02	0.00E+00	7.28E-03	1.46E+00
HP140 Ext	9.79E-01	4.04E-02	0.00E+00	5.10E-03	1.02E+00
HP143 Int	6.01E-01	1.35E-01	0.00E+00	6.00E-03	7.42E-01
HP143 Ext	4.21E-01	9.47E-02	0.00E+00	4.20E-03	5.20E-01
HP150 Int	1.42E+00	5.65E-02	0.00E+00	6.48E-03	1.49E+00
HP150 Ext	9.97E-01	3.96E-02	0.00E+00	4.54E-03	1.04E+00
HP153 Int	7.27E-01	1.33E-01	0.00E+00	5.19E-03	8.65E-01
HP153 Ext	5.09E-01	9.31E-02	0.00E+00	3.63E-03	6.05E-01

Table 45. Nuclear energy results for each paint product, per 1 m<sup>2</sup> for 60 years by design life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP140 Int	2.64E+00	1.14E-01	0.00E+00	-3.20E-03	2.75E+00
HP140 Ext	1.85E+00	7.99E-02	0.00E+00	-2.24E-03	1.92E+00
HP143 Int	1.02E+00	2.76E-01	0.00E+00	-3.50E-03	1.29E+00
HP143 Ext	7.16E-01	1.93E-01	0.00E+00	-2.45E-03	9.06E-01
HP150 Int	2.64E+00	1.12E-01	0.00E+00	-3.93E-03	2.75E+00
HP150 Ext	1.85E+00	7.84E-02	0.00E+00	-2.75E-03	1.93E+00
HP153 Int	1.22E+00	2.71E-01	0.00E+00	-4.18E-03	1.49E+00
HP153 Ext	8.57E-01	1.90E-01	0.00E+00	-2.92E-03	1.04E+00

Table 46. Other energy results for each paint product, per 1 m<sup>2</sup> for 60 years by design life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP140 Int	2.26E+00	2.64E-01	0.00E+00	3.50E-02	2.56E+00
HP140 Ext	1.58E+00	1.85E-01	0.00E+00	2.45E-02	1.79E+00
HP143 Int	1.36E+00	2.99E-01	0.00E+00	3.03E-02	1.69E+00



# ENVIRONMENTAL PRODUCT DECLARATION



BEHR PRO® Pre-Catalyzed Waterborne Epoxy

According to ISO 14025,  
ISO 21930

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP143 Ext	9.54E-01	2.10E-01	0.00E+00	2.12E-02	1.18E+00
HP150 Int	2.35E+00	2.51E-01	0.00E+00	3.30E-02	2.64E+00
HP150 Ext	1.65E+00	1.76E-01	0.00E+00	2.31E-02	1.85E+00
HP153 Int	1.59E+00	2.84E-01	0.00E+00	2.81E-02	1.90E+00
HP153 Ext	1.11E+00	1.99E-01	0.00E+00	1.97E-02	1.33E+00

Table 47. Non-renewable energy resource results each paint product, per 1 m<sup>2</sup> for 60 years by design life (kg)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP140 Int	1.14E+00	2.25E-01	0.00E+00	4.49E-03	1.37E+00
HP140 Ext	7.99E-01	1.57E-01	0.00E+00	3.14E-03	9.59E-01
HP143 Int	7.59E-01	4.14E-01	0.00E+00	3.56E-03	1.18E+00
HP143 Ext	5.31E-01	2.90E-01	0.00E+00	2.49E-03	8.23E-01
HP150 Int	1.26E+00	2.18E-01	0.00E+00	3.82E-03	1.48E+00
HP150 Ext	8.80E-01	1.52E-01	0.00E+00	2.68E-03	1.03E+00
HP153 Int	9.38E-01	4.03E-01	0.00E+00	2.89E-03	1.34E+00
HP153 Ext	6.57E-01	2.82E-01	0.00E+00	2.02E-03	9.41E-01

Table 48. Renewable energy resource results for each paint product, per 1 m<sup>2</sup> for 60 years by design life (kg)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP140 Int	1.86E-08	4.11E-12	0.00E+00	-1.20E-07	-1.01E-07
HP140 Ext	1.30E-08	2.87E-12	0.00E+00	-8.37E-08	-7.07E-08
HP143 Int	1.91E-08	1.31E-10	0.00E+00	-1.09E-07	-8.96E-08
HP143 Ext	1.34E-08	9.17E-11	0.00E+00	-7.62E-08	-6.27E-08
HP150 Int	1.82E-08	7.05E-12	0.00E+00	-1.19E-07	-1.01E-07
HP150 Ext	1.28E-08	4.94E-12	0.00E+00	-8.35E-08	-7.08E-08
HP153 Int	1.83E-08	1.33E-10	0.00E+00	-1.08E-07	-8.94E-08
HP153 Ext	1.28E-08	9.28E-11	0.00E+00	-7.55E-08	-6.26E-08



# ENVIRONMENTAL PRODUCT DECLARATION



BEHR PRO® Pre-Catalyzed Waterborne Epoxy

According to ISO 14025,  
ISO 21930

**Table 49. Energy resource use results for each paint product, per 1 m<sup>2</sup> for 60 years by market life**

SKU	BIO ENERGY	FOSSIL ENERGY	HYDRO/WIND ENERGY	NUCLEAR ENERGY	OTHER RENEWABLE ENERGY	NON-RENEWABLE ENERGY RESOURCES	RENEWABLE ENERGY RESOURCES
	MJ	MJ	MJ	MJ	MJ	KG	KG
HP140 Int	8.67E-09	7.03E+01	2.05E+00	3.85E+00	3.59E+00	1.92E+00	-1.41E-07
HP140 Ext	4.34E-09	3.51E+01	1.02E+00	1.92E+00	1.79E+00	9.59E-01	-7.07E-08
HP143 Int	7.41E-09	5.98E+01	1.04E+00	1.81E+00	2.37E+00	1.65E+00	-1.25E-07
HP143 Ext	3.71E-09	2.99E+01	5.20E-01	9.06E-01	1.18E+00	8.23E-01	-6.27E-08
HP150 Int	8.70E-09	7.66E+01	2.08E+00	3.85E+00	3.69E+00	2.07E+00	-1.42E-07
HP150 Ext	4.35E-09	3.83E+01	1.04E+00	1.93E+00	1.85E+00	1.03E+00	-7.08E-08
HP153 Int	7.48E-09	6.95E+01	1.21E+00	2.09E+00	2.66E+00	1.88E+00	-1.25E-07
HP153 Ext	3.74E-09	3.47E+01	6.05E-01	1.04E+00	1.33E+00	9.41E-01	-6.26E-08

**Table 50. Bio-energy results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (MJ)**

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP140 Int	7.73E-09	-1.49E-11	0.00E+00	9.58E-10	8.67E-09
HP140 Ext	3.86E-09	-7.43E-12	0.00E+00	4.79E-10	4.34E-09
HP143 Int	6.56E-09	-1.47E-11	0.00E+00	8.71E-10	7.41E-09
HP143 Ext	3.28E-09	-7.34E-12	0.00E+00	4.35E-10	3.71E-09
HP150 Int	7.76E-09	-1.41E-11	0.00E+00	9.55E-10	8.70E-09
HP150 Ext	3.88E-09	-7.03E-12	0.00E+00	4.77E-10	4.35E-09
HP153 Int	6.63E-09	-1.38E-11	0.00E+00	8.62E-10	7.48E-09
HP153 Ext	3.31E-09	-6.90E-12	0.00E+00	4.31E-10	3.74E-09

**Table 51. Fossil energy results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (MJ)**

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP140 Int	6.02E+01	9.85E+00	0.00E+00	1.89E-01	7.03E+01
HP140 Ext	3.01E+01	4.92E+00	0.00E+00	9.45E-02	3.51E+01
HP143 Int	4.18E+01	1.79E+01	0.00E+00	1.46E-01	5.98E+01
HP143 Ext	2.09E+01	8.93E+00	0.00E+00	7.29E-02	2.99E+01
HP150 Int	6.69E+01	9.51E+00	0.00E+00	1.56E-01	7.66E+01



# ENVIRONMENTAL PRODUCT DECLARATION



BEHR PRO® Pre-Catalyzed Waterborne Epoxy

According to ISO 14025,  
ISO 21930

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP150 Ext	3.35E+01	4.76E+00	0.00E+00	7.79E-02	3.83E+01
HP153 Int	5.20E+01	1.74E+01	0.00E+00	1.13E-01	6.95E+01
HP153 Ext	2.60E+01	8.69E+00	0.00E+00	5.64E-02	3.47E+01

**Table 52. Hydro/ Wind energy results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (MJ)**

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP140 Int	1.96E+00	8.08E-02	0.00E+00	1.02E-02	2.05E+00
HP140 Ext	9.79E-01	4.04E-02	0.00E+00	5.10E-03	1.02E+00
HP143 Int	8.42E-01	1.89E-01	0.00E+00	8.40E-03	1.04E+00
HP143 Ext	4.21E-01	9.47E-02	0.00E+00	4.20E-03	5.20E-01
HP150 Int	1.99E+00	7.91E-02	0.00E+00	9.07E-03	2.08E+00
HP150 Ext	9.97E-01	3.96E-02	0.00E+00	4.54E-03	1.04E+00
HP153 Int	1.02E+00	1.86E-01	0.00E+00	7.27E-03	1.21E+00
HP153 Ext	5.09E-01	9.31E-02	0.00E+00	3.63E-03	6.05E-01

**Table 53. Nuclear energy results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (MJ)**

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP140 Int	3.69E+00	1.60E-01	0.00E+00	-4.48E-03	3.85E+00
HP140 Ext	1.85E+00	7.99E-02	0.00E+00	-2.24E-03	1.92E+00
HP143 Int	1.43E+00	3.86E-01	0.00E+00	-4.90E-03	1.81E+00
HP143 Ext	7.16E-01	1.93E-01	0.00E+00	-2.45E-03	9.06E-01
HP150 Int	3.70E+00	1.57E-01	0.00E+00	-5.50E-03	3.85E+00
HP150 Ext	1.85E+00	7.84E-02	0.00E+00	-2.75E-03	1.93E+00
HP153 Int	1.71E+00	3.80E-01	0.00E+00	-5.85E-03	2.09E+00
HP153 Ext	8.57E-01	1.90E-01	0.00E+00	-2.92E-03	1.04E+00

**Table 54. Other energy results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (MJ)**

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP140 Int	3.17E+00	3.70E-01	0.00E+00	4.90E-02	3.59E+00
HP140 Ext	1.58E+00	1.85E-01	0.00E+00	2.45E-02	1.79E+00
HP143 Int	1.91E+00	4.19E-01	0.00E+00	4.24E-02	2.37E+00



# ENVIRONMENTAL PRODUCT DECLARATION



BEHR PRO® Pre-Catalyzed Waterborne Epoxy

According to ISO 14025,  
ISO 21930

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP143 Ext	9.54E-01	2.10E-01	0.00E+00	2.12E-02	1.18E+00
HP150 Int	3.29E+00	3.51E-01	0.00E+00	4.62E-02	3.69E+00
HP150 Ext	1.65E+00	1.76E-01	0.00E+00	2.31E-02	1.85E+00
HP153 Int	2.22E+00	3.98E-01	0.00E+00	3.94E-02	2.66E+00
HP153 Ext	1.11E+00	1.99E-01	0.00E+00	1.97E-02	1.33E+00

**Table 55. Non-renewable resource results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (kg)**

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP140 Int	1.60E+00	3.15E-01	0.00E+00	6.29E-03	1.92E+00
HP140 Ext	7.99E-01	1.57E-01	0.00E+00	3.14E-03	9.59E-01
HP143 Int	1.06E+00	5.79E-01	0.00E+00	4.98E-03	1.65E+00
HP143 Ext	5.31E-01	2.90E-01	0.00E+00	2.49E-03	8.23E-01
HP150 Int	1.76E+00	3.05E-01	0.00E+00	5.35E-03	2.07E+00
HP150 Ext	8.80E-01	1.52E-01	0.00E+00	2.68E-03	1.03E+00
HP153 Int	1.31E+00	5.65E-01	0.00E+00	4.05E-03	1.88E+00
HP153 Ext	6.57E-01	2.82E-01	0.00E+00	2.02E-03	9.41E-01

**Table 56. Renewable resource results for each paint product, per 1 m<sup>2</sup> for 60 years by market life (kg)**

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
HP140 Int	2.61E-08	5.75E-12	0.00E+00	-1.67E-07	-1.41E-07
HP140 Ext	1.30E-08	2.87E-12	0.00E+00	-8.37E-08	-7.07E-08
HP143 Int	2.68E-08	1.83E-10	0.00E+00	-1.52E-07	-1.25E-07
HP143 Ext	1.34E-08	9.17E-11	0.00E+00	-7.62E-08	-6.27E-08
HP150 Int	2.55E-08	9.87E-12	0.00E+00	-1.67E-07	-1.42E-07
HP150 Ext	1.28E-08	4.94E-12	0.00E+00	-8.35E-08	-7.08E-08
HP153 Int	2.57E-08	1.86E-10	0.00E+00	-1.51E-07	-1.25E-07
HP153 Ext	1.28E-08	9.28E-11	0.00E+00	-7.55E-08	-6.26E-08





BEHR PRO® Pre-Catalyzed Waterborne Epoxy

According to ISO 14025,  
ISO 21930

## 4. Additional Environmental Information

### 4.1. Environmental Activities and Certifications



#### GREENGUARD Certification

BEHR PRO® Pre-Catalyzed Waterborne Epoxy products are GREENGUARD and GREENGUARD Gold Certified. This third-party certification assures our paints are low-emitting and contribute to healthy indoor environments.

GREENGUARD Certification establishes acceptable indoor air standards for indoor products, environments, and buildings. GREENGUARD Gold Certification offers stricter certification criteria, considers safety factors to account for sensitive individuals (such as children and the elderly), and ensures that a product is acceptable for use in environments such as schools and healthcare facilities.

GREENGUARD certified products are referenced standards in numerous sustainable building initiatives including Leadership in Energy and Environmental Design (LEED®), Collaborative for High Performance Schools (CHPS), Green Guide for Health Care (GGHC), Sustainable Building Industry Council (SBIC) and many others. For more information on the GREENGUARD Certification Program emission standards visit [greenguard.org](http://greenguard.org).



#### MPI Extreme Green Performance™ Standard (MPI GPS-2-12)

BEHR PRO® Pre-Catalyzed Waterborne Epoxy is certified with the MPI Extreme Green Performance™ (X-Green) Standard, a three-pronged standard that has requirements on indoor air quality, durability, and environmental safety of paint products.

MPI's Green Performance™ Standards were established to challenge the thinking that VOC level alone should determine a 'green' coating. MPI believes that performance and durability are critical to true sustainability, since premature failure and the frequent repainting that results inevitably leads to greater VOC emissions and non-sustainable and costly maintenance operations. Therefore, paints certified to MPI's Green Performance™ Standard:

- 1) Provide performance and durability equal to their 'conventional' counterparts;
- 2) Have eliminated or contain only trace quantities of various undesirable chemical compounds such as phthalates;
- 3) Have reduced VOC. MPI's GPS 2 -- the most stringent in North America when introduced in 2007 -- has a maximum allowable VOC of 50 g/l across the board for all paint types.

The Extreme Green Environmental Performance™ Standard, which complements MPI's Green Performance™ Standards includes the following additional requirements:

- 1) No carcinogenic ingredients;
- 2) Maximum 50 g/l VOC;
- 3) Submit a third-party test result verifying they meet CHPS (Collaborative for High Performance Schools) emissions requirements;
- 4) The certification of emissions compliance to CHPS must be within two years of testing.







The MPI Green Performance™ Standard is the only green paint/coatings certification required by both the US and Canadian governments and referenced by the South Coast Air Quality Management District (SCAQMD).

## 4.2. Further Information

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For further information visit [behr.com](http://behr.com) and [kilz.com](http://kilz.com).

## 5. References

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# ENVIRONMENTAL PRODUCT DECLARATION



BEHR PRO® Pre-Catalyzed Waterborne Epoxy



According to ISO 14025,  
ISO 21930

## 6. Contact Information

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### 6.1. Study Commissioner

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### 6.2. LCA Practitioner

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