

## ENVIRONMENTAL PRODUCT DECLARATION

# BEHR PRO® e500 EXTERIOR PAINT

EXTERIOR PAINT



*Shown above: BEHR PRO® e500 Exterior Paint is a GREENGUARD® Gold certified, professional quality exterior paint developed for high-productivity, price driven projects.*

**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)





*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.*

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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	4791080617.129.1	
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	Exterior Paint	
PRODUCT RSL DESCRIPTION (IF APPL.)	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	October 4, 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:	Sphera	
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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## 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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## 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® e500 Exterior Paint is a professional-grade 100% acrylic exterior paint that provides good hide and durability and can be applied down to surface and air temperatures of 35°F. BEHR PRO® e500 Exterior Paint is GREENGUARD® GOLD certified offering a line of coatings that meet or exceed environmental and performance requirements. This product line includes: PR510 Flat, PR540 Satin and is available in 5-gallon sized containers. Tint bases are offered in: White and Deep, to allow tinting to a full range of colors.

#### Product Specification

Table 1. Specifications for BEHR PRO® e500 Exterior Paint

SKU	FILL / MAX TINT LOAD	GLOSS @ 60°	SHEEN @ 85°	RESIN TYPE	% SOLIDS BY VOLUME	% SOLIDS BY WEIGHT	FILM THICKNESS @ 250 SQ FT/GL	FILM THICKNESS @ 400 SQ FT/GL	VISCOSITY (KU)
PR510	124 fl oz 6 fl oz	-	0 – 3	100% Acrylic	30% ± 2%	43% ± 2%	Wet: 6.3 mils Dry: 1.9 mils	Wet: 4.0 mils Dry: 1.2 mils	95 – 105
PR513	116 fl oz 14 fl oz	-	0 – 3	100% Acrylic	30% ± 2%	43% ± 2%	Wet: 6.3 mils Dry: 1.9 mils	Wet: 4.0 mils Dry: 1.2 mils	95 – 105
PR540	124 fl oz 6 fl oz	10 – 20	-	100% Acrylic	29% ± 2%	36% ± 2%	Wet: 6.4 mils Dry: 1.9 mils	Wet: 4.0 mils Dry: 1.2 mils	95 – 105
PR543	116 fl oz 10 fl oz	10 – 20	-	100% Acrylic	29% ± 2%	36% ± 2%	Wet: 6.4 mils Dry: 1.9 mils	Wet: 4.0 mils Dry: 1.2 mils	95 – 105



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## 1.3. Application

Recommended application information for BEHR PRO® e500 Exterior Paint is as follows:

**Brush:** Nylon/polyester

**Roller:** 3/8" – 3/4" nap roller cover, depending on surface texture

**Airless Spray:**

**Tip:** .017" - .021"

**Filter:** 60 mesh

**Fluid Pressure:** 1,800 – 2,800 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  $<0.22 \text{ mg/m}^3$ . 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)

	PR510	PR513	PR540	PR543
VOC (g/L of paint)	48.43	49.80	47.78	45.46

## 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® e500 Exterior Flat Paint**

MATERIAL- FLAT	PR510	PR513
Resin/Binder	20 – 25%	25 – 30%
Additive	1 – 5%	5 – 10%
Biocide	0.1 – 1%	0.1 – 1%
Colorant	0.01 – 1%	-
Extender Pigment	20 – 25%	30 – 35%
Pigment (TiO2)	10 – 15%	-
Water	35 – 40%	35 – 40%

**Table 4. Material composition range in weight % for BEHR PRO® e500 Exterior Satin Paint**

MATERIAL- SATIN	PR540	PR543
Resin/Binder	40 – 45%	45 – 50%
Additive	5 – 10%	5 – 10%
Biocide	0.1 – 1%	1 – 3%
Colorant	0.01 – 1%	-
Extender Pigment	5 – 10%	5 – 10%
Pigment (TiO2)	10 – 15%	-
Water	35 – 40%	35 – 40%

**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 pails, which are then labeled and loaded onto pallets for distribution.





Flow Diagram

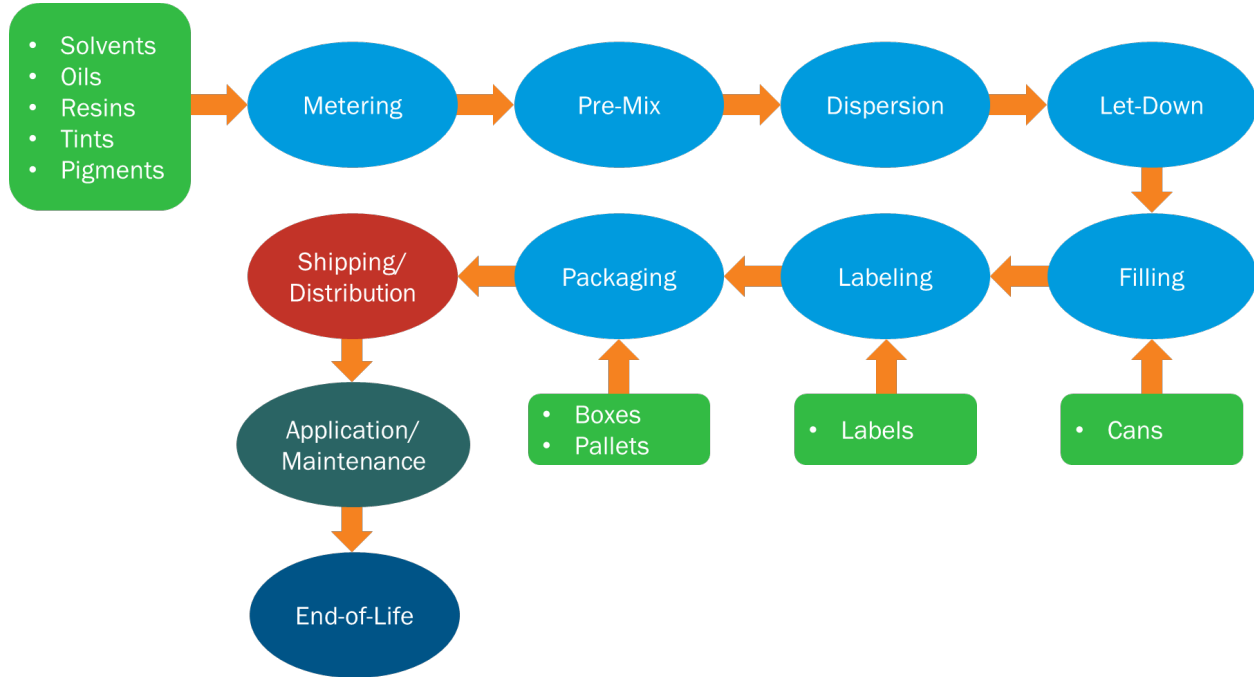


Figure 1. Flow diagram for cradle-to-grave LCA of BEHR PRO® e500 Exterior Paint

1.6. Packaging

Table 5 provides descriptions, volumes, and materials for the primary paint packaging used for BEHR PRO® e500 Exterior Paint. These packages are then loaded onto heat-treated wooden pallets for distribution.

Table 5. Description of primary paint packaging

CONTAINER	VOLUME	MATERIAL
Pail	5 Gallons	High Density Polyethylene





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## 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® e500 Exterior Paint 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® e500 Exterior Paint line is considered mid-quality, and therefore has a design life of 10 years. Per the PCR, all results declared are calculated for a market life of 10 years. 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.







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## 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 exterior paints is 10 years. 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® e500 Exterior Paint, 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> )
PR510	Flat	White	10	10	0.129	0.0047
PR513	Flat	Deep	10	10	0.130	0.0159
PR540	Satin	White	10	10	0.116	0.0047
PR543	Satin	Deep	10	10	0.110	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® e500 Exterior Paint sold in the North American market for the reference year 2021.



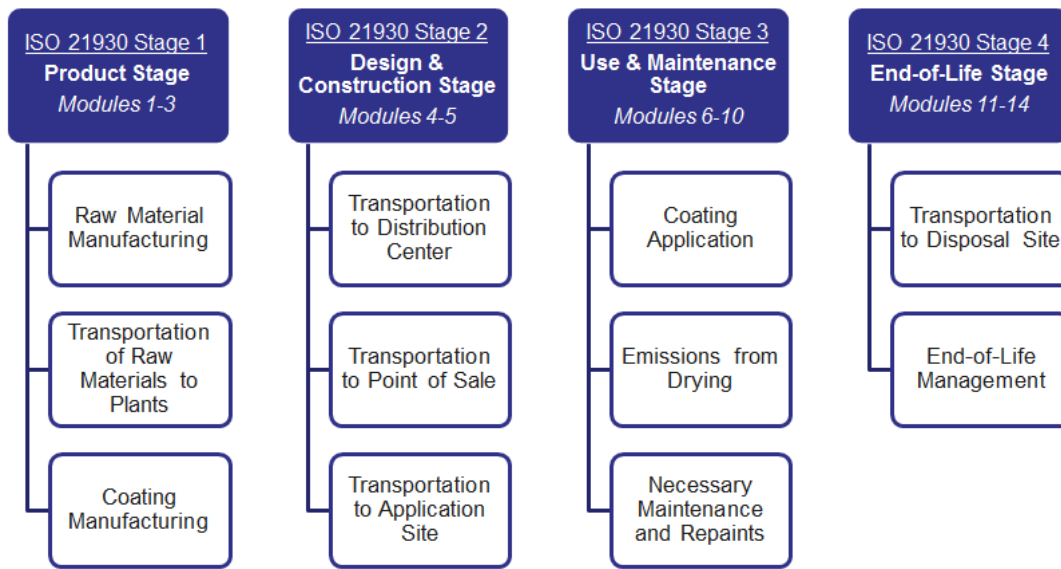


Figure 2. System boundaries for cradle to grave LCA

### 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 two of Behr’s production facilities that produce BEHR PRO® e500 Exterior Paint. Those facilities are located in: Chicago Heights, IL and 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.





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**2.6. Period under Review**

The period under review is 2021.

**2.7. Allocation**

Manufacturing inputs for the two facilities 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.
ADPf	Abiotic resource potential for fossil resources	CML 2001	MJ



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**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
PR510	1.13E+00	1.26E-02	3.59E-04	3.66E-14	4.31E-02	2.22E+01
PR513	1.06E+00	2.32E-03	3.33E-04	2.97E-14	3.60E-02	2.36E+01
PR540	1.37E+00	1.34E-02	3.63E-04	4.48E-14	4.76E-02	2.82E+01
PR543	1.22E+00	2.50E-03	3.18E-04	3.36E-14	3.75E-02	2.82E+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
PR510	8.62E-01	2.53E-01	0.00E+00	1.90E-02	1.13E+00
PR513	6.21E-01	4.22E-01	0.00E+00	1.85E-02	1.06E+00
PR540	1.13E+00	2.24E-01	0.00E+00	1.84E-02	1.37E+00
PR543	8.14E-01	3.90E-01	0.00E+00	1.57E-02	1.22E+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
PR510	1.20E-02	5.09E-04	0.00E+00	9.36E-05	1.26E-02
PR513	1.44E-03	7.82E-04	0.00E+00	9.34E-05	2.32E-03
PR540	1.29E-02	4.31E-04	0.00E+00	8.58E-05	1.34E-02
PR543	1.71E-03	7.14E-04	0.00E+00	7.88E-05	2.50E-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
PR510	1.34E-04	7.08E-05	0.00E+00	1.55E-04	3.59E-04
PR513	9.86E-05	7.97E-05	0.00E+00	1.55E-04	3.33E-04
PR540	1.63E-04	6.04E-05	0.00E+00	1.39E-04	3.63E-04
PR543	1.17E-04	6.91E-05	0.00E+00	1.32E-04	3.18E-04



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**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
PR510	3.42E-14	1.69E-15	0.00E+00	6.53E-16	3.66E-14
PR513	2.47E-14	4.33E-15	0.00E+00	6.73E-16	2.97E-14
PR540	4.26E-14	1.61E-15	0.00E+00	5.64E-16	4.48E-14
PR543	2.88E-14	4.18E-15	0.00E+00	5.44E-16	3.36E-14

**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
PR510	3.21E-02	9.29E-03	3.72E-10	1.72E-03	4.31E-02
PR513	2.28E-02	1.15E-02	3.72E-10	1.73E-03	3.60E-02
PR540	3.85E-02	7.56E-03	3.72E-10	1.54E-03	4.76E-02
PR543	2.59E-02	1.01E-02	3.72E-10	1.46E-03	3.75E-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
PR510	1.79E+01	4.30E+00	0.00E+00	5.81E-02	2.22E+01
PR513	1.46E+01	8.87E+00	0.00E+00	7.28E-02	2.36E+01
PR540	2.42E+01	3.92E+00	0.00E+00	4.03E-02	2.82E+01
PR543	1.98E+01	8.41E+00	0.00E+00	3.37E-02	2.82E+01

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

SKU	GWP	AP	EP	ODP	SFP	ADP <sub>f</sub>
	KG CO <sub>2</sub> EQ.	KG SO <sub>2</sub> EQ.	KG N EQ.	KG CFC 11 EQ.	KG O <sub>3</sub> EQ.	MJ
PR510	1.13E+00	1.26E-02	3.59E-04	3.66E-14	4.31E-02	2.22E+01
PR513	1.06E+00	2.32E-03	3.33E-04	2.97E-14	3.60E-02	2.36E+01
PR540	1.37E+00	1.34E-02	3.63E-04	4.48E-14	4.76E-02	2.82E+01
PR543	1.22E+00	2.50E-03	3.18E-04	3.36E-14	3.75E-02	2.82E+01



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**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
PR510	8.62E-01	2.53E-01	0.00E+00	1.90E-02	1.13E+00
PR513	6.21E-01	4.22E-01	0.00E+00	1.85E-02	1.06E+00
PR540	1.13E+00	2.24E-01	0.00E+00	1.84E-02	1.37E+00
PR543	8.14E-01	3.90E-01	0.00E+00	1.57E-02	1.22E+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
PR510	1.20E-02	5.09E-04	0.00E+00	9.36E-05	1.26E-02
PR513	1.44E-03	7.82E-04	0.00E+00	9.34E-05	2.32E-03
PR540	1.29E-02	4.31E-04	0.00E+00	8.58E-05	1.34E-02
PR543	1.71E-03	7.14E-04	0.00E+00	7.88E-05	2.50E-03

**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
PR510	1.34E-04	7.08E-05	0.00E+00	1.55E-04	3.59E-04
PR513	9.86E-05	7.97E-05	0.00E+00	1.55E-04	3.33E-04
PR540	1.63E-04	6.04E-05	0.00E+00	1.39E-04	3.63E-04
PR543	1.17E-04	6.91E-05	0.00E+00	1.32E-04	3.18E-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
PR510	3.42E-14	1.69E-15	0.00E+00	6.53E-16	3.66E-14
PR513	2.47E-14	4.33E-15	0.00E+00	6.73E-16	2.97E-14
PR540	4.26E-14	1.61E-15	0.00E+00	5.64E-16	4.48E-14
PR543	2.88E-14	4.18E-15	0.00E+00	5.44E-16	3.36E-14





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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
PR510	3.21E-02	9.29E-03	3.72E-10	1.72E-03	4.31E-02
PR513	2.28E-02	1.15E-02	3.72E-10	1.73E-03	3.60E-02
PR540	3.85E-02	7.56E-03	3.72E-10	1.54E-03	4.76E-02
PR543	2.59E-02	1.01E-02	3.72E-10	1.46E-03	3.75E-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
PR510	1.79E+01	4.30E+00	0.00E+00	5.81E-02	2.22E+01
PR513	1.46E+01	8.87E+00	0.00E+00	7.28E-02	2.36E+01
PR540	2.42E+01	3.92E+00	0.00E+00	4.03E-02	2.82E+01
PR543	1.98E+01	8.41E+00	0.00E+00	3.37E-02	2.82E+01

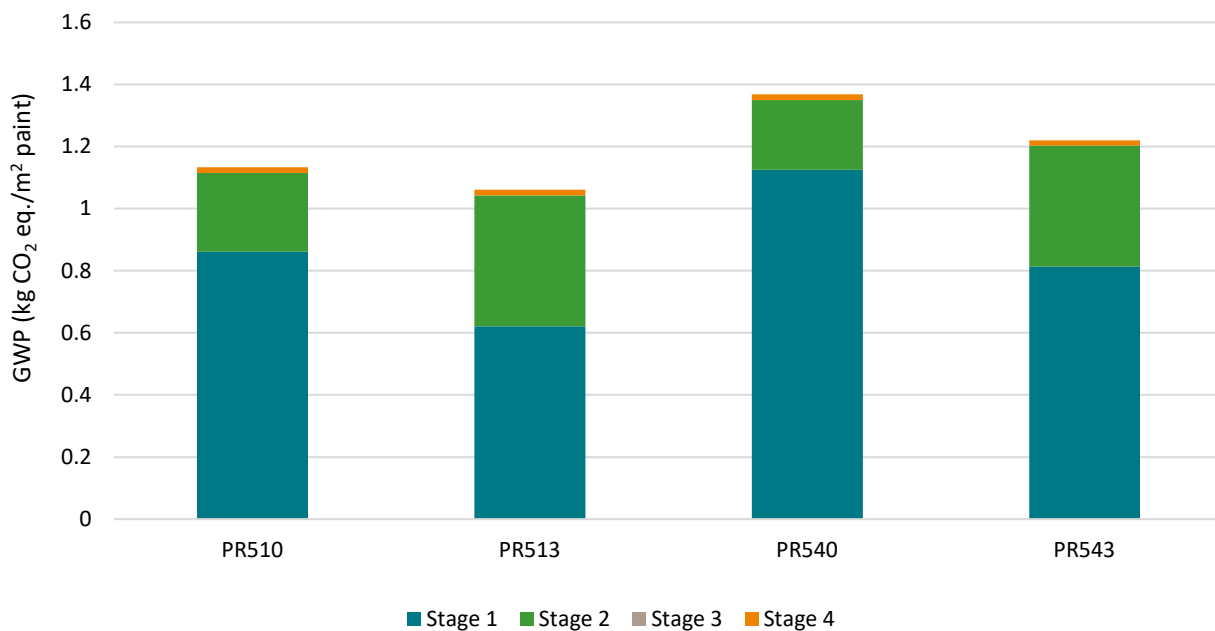


Figure 3: GWP results by stage by design life





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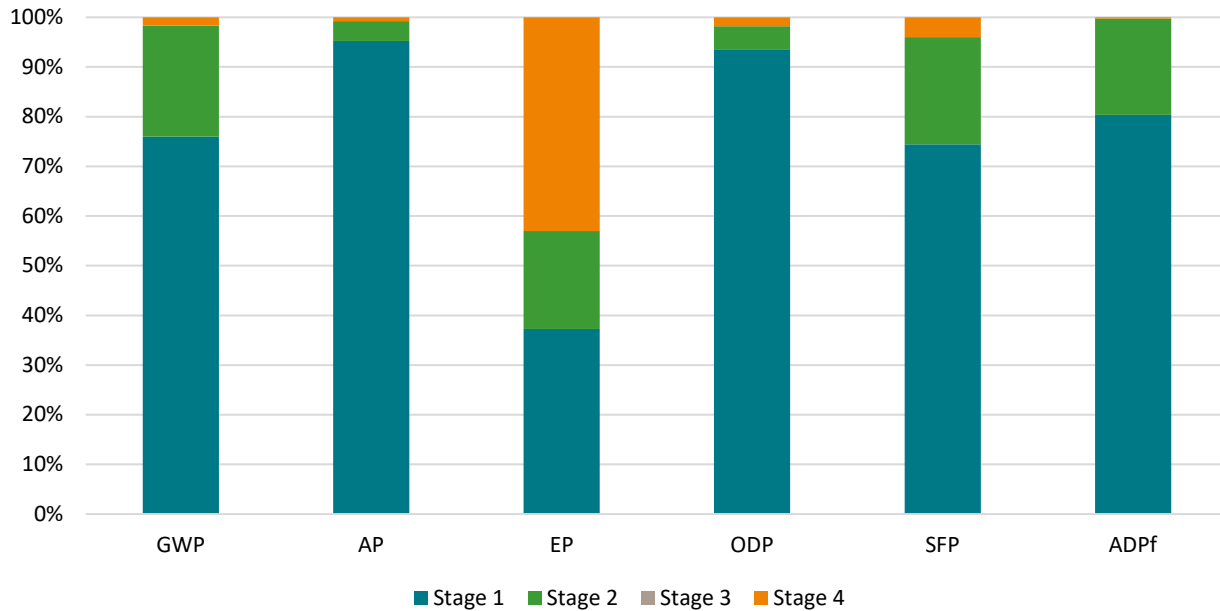


Figure 4. LCIA contribution results for PR510

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>
PR510	1.65E+00	9.00E-02	1.93E+01	3.98E+00	5.10E-04	0	0	0	6.53E-03
PR513	1.57E+00	6.84E-02	2.09E+01	3.60E+00	5.10E-04	0	0	0	5.66E-03
PR540	2.06E+00	1.32E-01	2.43E+01	5.20E+00	3.94E-04	0	0	0	7.64E-03
PR543	1.30E+00	6.71E-02	2.43E+01	4.75E+00	5.01E-04	0	0	0	6.14E-03





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**Table 24. RPRe results for each paint product, for their design life (MJ)**

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR510	1.42E+00	1.98E-01	0.00E+00	3.15E-02	1.65E+00
PR513	1.23E+00	3.07E-01	0.00E+00	3.23E-02	1.57E+00
PR540	1.86E+00	1.77E-01	0.00E+00	2.68E-02	2.06E+00
PR543	9.95E-01	2.81E-01	0.00E+00	2.72E-02	1.30E+00

**Table 25. RPRm results for each paint product, for their design life (MJ)**

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR510	9.00E-02	0.00E+00	0.00E+00	0.00E+00	9.00E-02
PR513	6.84E-02	0.00E+00	0.00E+00	0.00E+00	6.84E-02
PR540	1.32E-01	0.00E+00	0.00E+00	0.00E+00	1.32E-01
PR543	6.71E-02	0.00E+00	0.00E+00	0.00E+00	6.71E-02

**Table 26. NRPRe results for each paint product, for their design life (MJ)**

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR510	1.49E+01	4.37E+00	0.00E+00	5.97E-02	1.93E+01
PR513	1.17E+01	9.07E+00	0.00E+00	7.53E-02	2.09E+01
PR540	2.03E+01	3.99E+00	0.00E+00	4.02E-02	2.43E+01
PR543	1.57E+01	8.59E+00	0.00E+00	3.50E-02	2.43E+01

**Table 27. NRPRm results for each paint product, for their design life (MJ)**

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR510	3.98E+00	0.00E+00	0.00E+00	0.00E+00	3.98E+00
PR513	3.60E+00	0.00E+00	0.00E+00	0.00E+00	3.60E+00
PR540	5.20E+00	0.00E+00	0.00E+00	0.00E+00	5.20E+00
PR543	4.75E+00	0.00E+00	0.00E+00	0.00E+00	4.75E+00



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

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR510	5.10E-04	0.00E+00	0.00E+00	0.00E+00	5.10E-04
PR513	5.10E-04	0.00E+00	0.00E+00	0.00E+00	5.10E-04
PR540	3.94E-04	0.00E+00	0.00E+00	0.00E+00	3.94E-04
PR543	5.01E-04	0.00E+00	0.00E+00	0.00E+00	5.01E-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
PR510	5.33E-03	1.21E-03	0.00E+00	-6.13E-06	6.53E-03
PR513	3.44E-03	2.22E-03	0.00E+00	-4.84E-06	5.66E-03
PR540	6.53E-03	1.11E-03	0.00E+00	-3.70E-06	7.64E-03
PR543	4.07E-03	2.08E-03	0.00E+00	-9.59E-06	6.14E-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>
PR510	1.65E+00	9.00E-02	1.93E+01	3.98E+00	5.10E-04	0	0	0	6.53E-03
PR513	1.57E+00	6.84E-02	2.09E+01	3.60E+00	5.10E-04	0	0	0	5.66E-03
PR540	2.06E+00	1.32E-01	2.43E+01	5.20E+00	3.94E-04	0	0	0	7.64E-03
PR543	1.30E+00	6.71E-02	2.43E+01	4.75E+00	5.01E-04	0	0	0	6.14E-03

**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
PR510	1.42E+00	1.98E-01	0.00E+00	3.15E-02	1.65E+00
PR513	1.23E+00	3.07E-01	0.00E+00	3.23E-02	1.57E+00
PR540	1.86E+00	1.77E-01	0.00E+00	2.68E-02	2.06E+00
PR543	9.95E-01	2.81E-01	0.00E+00	2.72E-02	1.30E+00





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**Table 32. RPRm 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
PR510	9.00E-02	0.00E+00	0.00E+00	0.00E+00	9.00E-02
PR513	6.84E-02	0.00E+00	0.00E+00	0.00E+00	6.84E-02
PR540	1.32E-01	0.00E+00	0.00E+00	0.00E+00	1.32E-01
PR543	6.71E-02	0.00E+00	0.00E+00	0.00E+00	6.71E-02

**Table 33. NRPRe 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
PR510	1.49E+01	4.37E+00	0.00E+00	5.97E-02	1.93E+01
PR513	1.17E+01	9.07E+00	0.00E+00	7.53E-02	2.09E+01
PR540	2.03E+01	3.99E+00	0.00E+00	4.02E-02	2.43E+01
PR543	1.57E+01	8.59E+00	0.00E+00	3.50E-02	2.43E+01

**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
PR510	3.98E+00	0.00E+00	0.00E+00	0.00E+00	3.98E+00
PR513	3.60E+00	0.00E+00	0.00E+00	0.00E+00	3.60E+00
PR540	5.20E+00	0.00E+00	0.00E+00	0.00E+00	5.20E+00
PR543	4.75E+00	0.00E+00	0.00E+00	0.00E+00	4.75E+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
PR510	5.10E-04	0.00E+00	0.00E+00	0.00E+00	5.10E-04
PR513	5.10E-04	0.00E+00	0.00E+00	0.00E+00	5.10E-04
PR540	3.94E-04	0.00E+00	0.00E+00	0.00E+00	3.94E-04
PR543	5.01E-04	0.00E+00	0.00E+00	0.00E+00	5.01E-04



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**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
PR510	5.33E-03	1.21E-03	0.00E+00	-6.13E-06	6.53E-03
PR513	3.44E-03	2.22E-03	0.00E+00	-4.84E-06	5.66E-03
PR540	6.53E-03	1.11E-03	0.00E+00	-3.70E-06	7.64E-03
PR543	4.07E-03	2.08E-03	0.00E+00	-9.59E-06	6.14E-03

**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 %
PR510	0.26%	99.74%
PR513	0.03%	99.97%
PR540	0.78%	99.22%
PR543	0.03%	99.97%

**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
PR510	HWD	4.78%	0.00%	0.00%	0.00%	0.26%
	NHWD	95.22%	0.00%	0.00%	100.00%	99.74%
PR513	HWD	4.20%	0.00%	0.00%	0.00%	0.03%
	NHWD	95.80%	0.00%	0.00%	100.00%	99.97%
PR540	HWD	4.83%	0.00%	0.00%	0.00%	0.78%
	NHWD	95.17%	0.00%	0.00%	100.00%	99.22%
PR543	HWD	4.20%	0.00%	0.00%	0.00%	0.03%
	NHWD	95.80%	0.00%	0.00%	100.00%	99.97%

**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 %
PR510	0.26%	99.74%
PR513	0.03%	99.97%
PR540	0.78%	99.22%
PR543	0.03%	99.97%



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**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
PR510	HWD	4.78%	0.00%	0.00%	0.00%	0.26%
	NHWD	95.22%	0.00%	0.00%	100.00%	99.74%
PR513	HWD	4.20%	0.00%	0.00%	0.00%	0.03%
	NHWD	95.80%	0.00%	0.00%	100.00%	99.97%
PR540	HWD	4.83%	0.00%	0.00%	0.00%	0.78%
	NHWD	95.17%	0.00%	0.00%	100.00%	99.22%
PR543	HWD	4.20%	0.00%	0.00%	0.00%	0.03%
	NHWD	95.80%	0.00%	0.00%	100.00%	99.97%

**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
PR510	7.26E-09	2.22E+01	5.97E-01	1.08E+00	1.14E+00	6.13E-01	-1.25E-07
PR513	7.17E-09	2.36E+01	5.16E-01	9.28E-01	1.12E+00	6.67E-01	-1.24E-07
PR540	5.76E-09	2.82E+01	7.37E-01	1.35E+00	1.45E+00	7.59E-01	-9.82E-08
PR543	7.11E-09	2.82E+01	5.04E-01	8.53E-01	8.67E-01	7.78E-01	-1.23E-07

**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
PR510	6.38E-09	-5.67E-12	0.00E+00	8.84E-10	7.26E-09
PR513	6.29E-09	-6.84E-12	0.00E+00	8.85E-10	7.17E-09
PR540	5.08E-09	-4.71E-12	0.00E+00	6.84E-10	5.76E-09
PR543	6.24E-09	-6.00E-12	0.00E+00	8.68E-10	7.11E-09



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**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
PR510	1.79E+01	4.30E+00	0.00E+00	5.81E-02	2.22E+01
PR513	1.46E+01	8.87E+00	0.00E+00	7.28E-02	2.36E+01
PR540	2.42E+01	3.92E+00	0.00E+00	4.03E-02	2.82E+01
PR543	1.98E+01	8.41E+00	0.00E+00	3.37E-02	2.82E+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
PR510	5.53E-01	3.75E-02	0.00E+00	6.75E-03	5.97E-01
PR513	4.14E-01	9.52E-02	0.00E+00	7.16E-03	5.16E-01
PR540	6.96E-01	3.57E-02	0.00E+00	5.33E-03	7.37E-01
PR543	4.06E-01	9.20E-02	0.00E+00	5.75E-03	5.04E-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
PR510	1.01E+00	7.48E-02	0.00E+00	1.62E-03	1.08E+00
PR513	7.31E-01	1.94E-01	0.00E+00	2.50E-03	9.28E-01
PR540	1.28E+00	7.15E-02	0.00E+00	-1.08E-04	1.35E+00
PR543	6.64E-01	1.88E-01	0.00E+00	1.27E-03	8.53E-01

**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
PR510	9.57E-01	1.61E-01	0.00E+00	2.48E-02	1.14E+00
PR513	8.85E-01	2.12E-01	0.00E+00	2.51E-02	1.12E+00
PR540	1.29E+00	1.42E-01	0.00E+00	2.14E-02	1.45E+00
PR543	6.56E-01	1.89E-01	0.00E+00	2.15E-02	8.67E-01



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**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
PR510	4.74E-01	1.38E-01	0.00E+00	1.56E-03	6.13E-01
PR513	3.77E-01	2.88E-01	0.00E+00	1.93E-03	6.67E-01
PR540	6.32E-01	1.26E-01	0.00E+00	1.20E-03	7.59E-01
PR543	5.03E-01	2.73E-01	0.00E+00	8.33E-04	7.78E-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
PR510	2.97E-08	1.07E-11	0.00E+00	-1.55E-07	-1.25E-07
PR513	3.06E-08	9.48E-11	0.00E+00	-1.55E-07	-1.24E-07
PR540	2.16E-08	1.53E-11	0.00E+00	-1.20E-07	-9.82E-08
PR543	2.94E-08	9.70E-11	0.00E+00	-1.52E-07	-1.23E-07

**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
PR510	7.26E-09	2.22E+01	5.97E-01	1.08E+00	1.14E+00	6.13E-01	-1.25E-07
PR513	7.17E-09	2.36E+01	5.16E-01	9.28E-01	1.12E+00	6.67E-01	-1.24E-07
PR540	5.76E-09	2.82E+01	7.37E-01	1.35E+00	1.45E+00	7.59E-01	-9.82E-08
PR543	7.11E-09	2.82E+01	5.04E-01	8.53E-01	8.67E-01	7.78E-01	-1.23E-07

**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
PR510	6.38E-09	-5.67E-12	0.00E+00	8.84E-10	7.26E-09
PR513	6.29E-09	-6.84E-12	0.00E+00	8.85E-10	7.17E-09
PR540	5.08E-09	-4.71E-12	0.00E+00	6.84E-10	5.76E-09
PR543	6.24E-09	-6.00E-12	0.00E+00	8.68E-10	7.11E-09





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**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
PR510	1.79E+01	4.30E+00	0.00E+00	5.81E-02	2.22E+01
PR513	1.46E+01	8.87E+00	0.00E+00	7.28E-02	2.36E+01
PR540	2.42E+01	3.92E+00	0.00E+00	4.03E-02	2.82E+01
PR543	1.98E+01	8.41E+00	0.00E+00	3.37E-02	2.82E+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
PR510	5.53E-01	3.75E-02	0.00E+00	6.75E-03	5.97E-01
PR513	4.14E-01	9.52E-02	0.00E+00	7.16E-03	5.16E-01
PR540	6.96E-01	3.57E-02	0.00E+00	5.33E-03	7.37E-01
PR543	4.06E-01	9.20E-02	0.00E+00	5.75E-03	5.04E-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
PR510	1.01E+00	7.48E-02	0.00E+00	1.62E-03	1.08E+00
PR513	7.31E-01	1.94E-01	0.00E+00	2.50E-03	9.28E-01
PR540	1.28E+00	7.15E-02	0.00E+00	-1.08E-04	1.35E+00
PR543	6.64E-01	1.88E-01	0.00E+00	1.27E-03	8.53E-01

**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
PR510	9.57E-01	1.61E-01	0.00E+00	2.48E-02	1.14E+00
PR513	8.85E-01	2.12E-01	0.00E+00	2.51E-02	1.12E+00
PR540	1.29E+00	1.42E-01	0.00E+00	2.14E-02	1.45E+00
PR543	6.56E-01	1.89E-01	0.00E+00	2.15E-02	8.67E-01







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**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
PR510	4.74E-01	1.38E-01	0.00E+00	1.56E-03	6.13E-01
PR513	3.77E-01	2.88E-01	0.00E+00	1.93E-03	6.67E-01
PR540	6.32E-01	1.26E-01	0.00E+00	1.20E-03	7.59E-01
PR543	5.03E-01	2.73E-01	0.00E+00	8.33E-04	7.78E-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
PR510	2.97E-08	1.07E-11	0.00E+00	-1.55E-07	-1.25E-07
PR513	3.06E-08	9.48E-11	0.00E+00	-1.55E-07	-1.24E-07
PR540	2.16E-08	1.53E-11	0.00E+00	-1.20E-07	-9.82E-08
PR543	2.94E-08	9.70E-11	0.00E+00	-1.52E-07	-1.23E-07

## 4. Additional Environmental Information

### 4.1. Environmental Activities and Certifications



#### GREENGUARD Certification

BEHR PRO® e500 Exterior Paint 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).





BEHR PRO® e500 Exterior Paint



According to ISO 14025,  
ISO 21930

## 4.2. Further Information

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® e500 Exterior Paint



According to ISO 14025,  
ISO 21930

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## 6. Contact Information

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### 6.1. Study Commissioner



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### 6.2. LCA Practitioner



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