

ENVIRONMENTAL PRODUCT DECLARATION

BEHR PRO® i100 INTERIOR PAINT

INTERIOR PAINT



Shown above: BEHR PRO® i100 Interior Paint is a GREENGUARD® Gold certified, water-based paint designed to deliver reliable performance and value for interior applications.

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 and 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	4791080617.112.1	
DECLARED PRODUCT & FUNCTIONAL UNIT OR DECLARED UNIT	1m ² 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 Paint	
PRODUCT RSL DESCRIPTION (IF APPL.)	5 years market life and 3 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	
	ncss@nsf.org	
This declaration was independently verified in accordance with ISO 14025: 2006. <input type="checkbox"/> INTERNAL <input checked="" type="checkbox"/> EXTERNAL	<i>Cooper McCollum</i> Cooper McCollum, UL Solutions	
	Sphera	
This life cycle assessment was conducted in accordance with ISO 14040/44 and the reference PCR by:	<i>MWildnauer</i> Maggie Wildnauer, WAP Sustainability	
This life cycle assessment was independently verified in accordance with ISO 14044 and the reference PCR by:		

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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® i100 Interior Paint is a professional quality interior paint developed for maximum productivity in high-turnover, price-driven projects. It provides maximum performance in applications such as spray, spray back-roll, and touch-ups. BEHR PRO® i100 Interior Paint is GREENGUARD® GOLD certified and MPI approved, offering a line of coatings that meet or exceed environmental and performance requirements. This product line includes: PR105 Flat, PR130 Eggshell and PR170 Semi-Gloss and is available in gallon and 5-gallon sized containers.

Product Specification

Table 1. Specifications for BEHR PRO® i100 Interior Paint

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)
PR105	128 fl oz 2 fl oz	< 2	< 2	PVA	29% ± 2%	51% ± 2%	Wet: 5.3 mils Dry: 1.5 mils	Wet: 4.0 mils Dry: 1.2 mils	95 – 105
PR130	128 fl oz 2 fl oz	5 – 11	10 – 22	PVA	33% ± 2%	44% ± 2%	Wet: 5.3 mils Dry: 1.7 mils	Wet: 4.0 mils Dry: 1.3 mils	95 – 105
PR170	128 fl oz 2 fl oz	35 – 50	-	PVA/Acrylic Blend	33% ± 2%	41% ± 2%	Wet: 5.3 mils Dry: 1.8 mils	Wet: 4.0 mils Dry: 1.3 mils	95 – 105



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1.3. Application

Recommended application information for BEHR PRO® i100 Interior Paint is as follows:

Brush: Nylon/Polyester Blend

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

Airless Spray:

Tip: .017" - .021"

Filter: 60 mesh

Fluid Pressure: 1,400 – 2,400 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)

	PR105	PR130	PR170
VOC (g/L of paint)	48.40	17.50	43.23

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 5.





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Table 3. Material composition range in weight % for BEHR PRO® i100 Interior Flat

MATERIAL- FLAT	PR105
Resin/Binder	5 – 10%
Additive	5 – 10%
Biocide	0.1 – 1%
Extender Pigment	25 – 30%
Pigment (TiO2)	10 – 15%
Solvent	0.1 – 1%
Water	40 – 50%

Table 4. Material composition range in weight % for BEHR PRO® i100 Interior Eggshell

MATERIAL- EGGSHELL	PR130
Resin/Binder	35 – 40%
Additive	5 – 10%
Biocide	0.1 – 1%
Colorant	0.01 – 1%
Extender Pigment	5 – 10%
Pigment (TiO2)	10 – 15 %
Water	30 – 35%

Table 5. Material composition range in weight % for BEHR PRO® i100 Interior Semi-Gloss

MATERIAL- SEMI-GLOSS	PR170
Resin/Binder	45 – 50%
Additive	5 – 10%
Biocide	0.1 – 1%
Colorant	0.01 – 1%
Extender Pigment	1 – 5%
Pigment (TiO2)	15 – 20 %
Water	25 – 30%





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

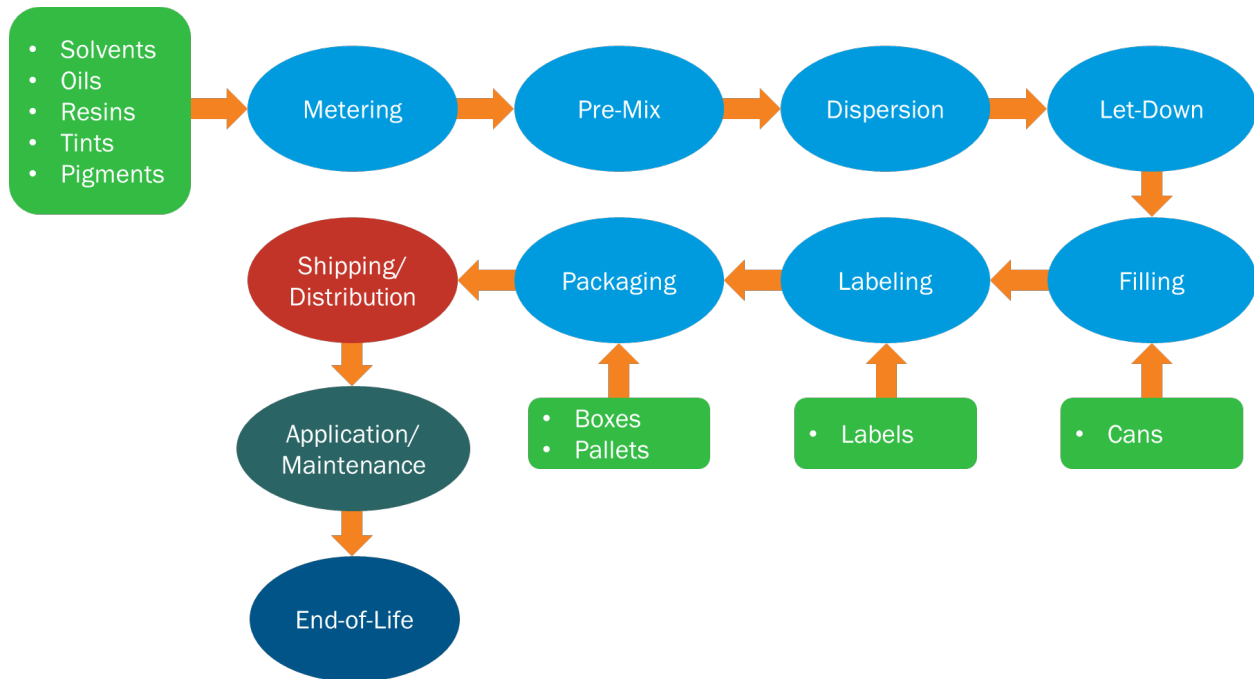


Figure 1. Flow diagram for cradle-to-grave LCA of BEHR PRO® i100 Interior Paint

1.6. Packaging

Table 6 provides descriptions, volumes, and materials for the primary paint packaging used for BEHR PRO® i100 Interior Paint. These packages are then placed in cardboard boxes and loaded onto heat-treated wooden pallets for distribution.





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Table 6. Description of primary paint packaging

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

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® i100 Interior Paint portfolio are considered low-VOC products.

1.9. Reference Service Life and Estimated Building Service Life

Table 7 shows the design lifetime for interior and exterior paints of different quality. The entire BEHR PRO® i100 Interior Paint line is considered low-quality, and therefore has a design life of 3 years. Per the PCR, all results declared are calculated for a market life of 5 years. The estimated building life is 60 years per the PCR.

Table 7. 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.





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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.

2. Life Cycle Assessment Background Information

2.1. Functional or Declared Unit

The functional unit for the study is:

Covering and protecting 1 m² 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. 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 7. Lifetimes and reference flows for each sheen and base combination are shown in Table 8. Results were calculated for all base and sheen formulations.

For further technical information on BEHR PRO® i100 Interior Paint, visit www.behr.com.

Table 8. 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 ²)	COLORANT PER UNIT AREA (KG/M ²)
PR105	Flat	White	3	5	0.146	0.0047
PR130	Eggshell	White	3	5	0.124	0.0047
PR170	Semi-Gloss	White	3	5	0.120	0.0047





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® i100 Interior Paint sold in the North American market for the reference year 2021.

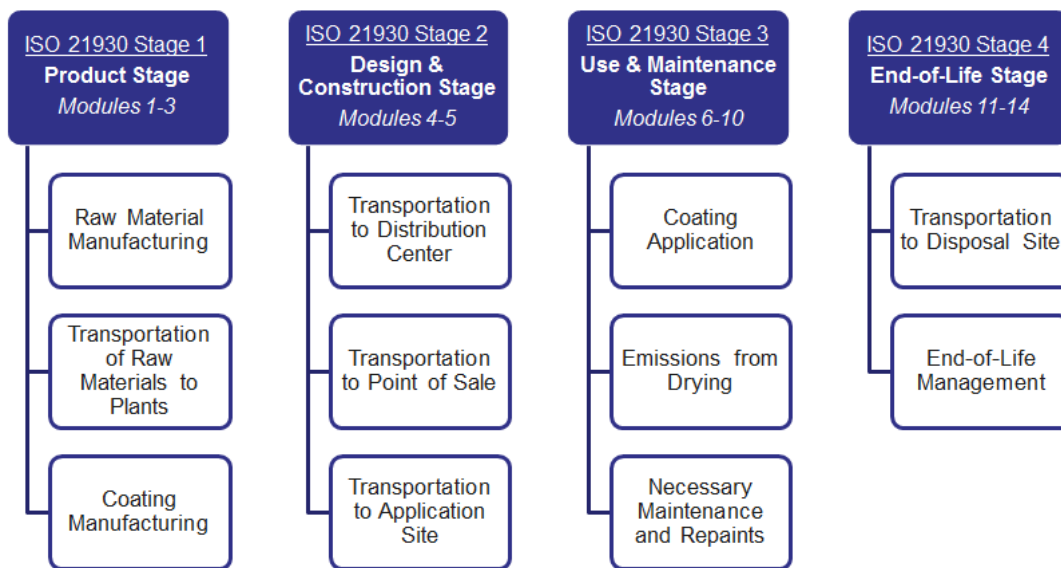


Figure 2. System boundaries for cradle to grave LCA

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.





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2.5. Data Sources and Quality

Primary data, for the 2021 reference year, was obtained from five of Behr’s production facilities that produce BEHR PRO® i100 Interior Paint. Those facilities are located in: Chicago Heights, IL; Allentown, PA; McDonough, GA; Roanoke, TX 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.

2.6. Period under Review

The period under review is 2021.

2.7. Allocation

Manufacturing inputs for the five 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 9). 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 10 and Table 17, respectively.

Furthermore, the results of each impact category for each stage are presented in Table 11 to Table 16 and from Table 18 to Table 23. 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 9. Environmental impact categories for North America

PARAMETER	DESCRIPTION	LCIA METHOD	UNIT
GWP	Global warming potential, fossil	IPCCC AR5 (2013)	kg CO ₂ eq.
ODP	Stratospheric ozone layer depletion potential	TRACI 2.1	kg CFC 11 eq.



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PARAMETER	DESCRIPTION	LCIA METHOD	UNIT
AP	Land and water acidification potential	TRACI 2.1	kg SO ₂ eq.
EP	Eutrophication potential	TRACI 2.1	kg N eq.
SFP	Tropospheric ozone photochemical oxidant (smog) formation potential	TRACI 2.1	kg O ₃ eq.
ADP _f	Abiotic resource potential for fossil resources	CML 2001	MJ

Table 10. Total LCIA results for each paint product, per 1 m² for 60 years by design life

SKU	GWP	AP	EP	ODP	SFP	ADP _f
	KG CO ₂ EQ.	KG SO ₂ EQ.	KG N EQ.	KG CFC-11 EQ.	KG O ₃ EQ.	MJ
PR105	4.37E+00	8.72E-02	1.41E-03	1.40E-13	1.77E-01	7.37E+01
PR130	4.82E+00	5.17E-02	1.31E-03	1.43E-13	1.68E-01	9.88E+01
PR170	5.23E+00	5.80E-02	1.32E-03	1.65E-13	1.81E-01	1.08E+02

Table 11. GWP LCIA results for each paint product, per 1 m² for 60 years by design life (kg CO₂ eq.)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
PR105	3.42E+00	8.72E-01	0.00E+00	7.34E-02	4.37E+00
PR130	3.97E+00	7.87E-01	0.00E+00	6.28E-02	4.82E+00
PR170	4.40E+00	7.67E-01	0.00E+00	6.06E-02	5.23E+00

Table 12. AP LCIA results for each paint product, per 1 m² for 60 years by design life (kg SO₂ eq.)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
PR105	8.51E-02	1.69E-03	0.00E+00	3.55E-04	8.72E-02
PR130	4.99E-02	1.53E-03	0.00E+00	3.00E-04	5.17E-02
PR170	5.62E-02	1.48E-03	0.00E+00	2.90E-04	5.80E-02



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Table 13. EP LCIA results for each paint product, per 1 m² for 60 years by design life (kg N eq.)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
PR105	5.79E-04	2.49E-04	0.00E+00	5.81E-04	1.41E-03
PR130	5.98E-04	2.16E-04	0.00E+00	4.96E-04	1.31E-03
PR170	6.30E-04	2.09E-04	0.00E+00	4.80E-04	1.32E-03

Table 14. ODP LCIA results for each paint product, per 1 m² for 60 years by design life (kg CFC-11 eq.)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
PR105	1.32E-13	5.72E-15	0.00E+00	2.59E-15	1.40E-13
PR130	1.36E-13	5.48E-15	0.00E+00	2.06E-15	1.43E-13
PR170	1.57E-13	5.42E-15	0.00E+00	1.97E-15	1.65E-13

Table 15. SFP LCIA results for each paint product, per 1 m² for 60 years by design life (kg O₃ eq.)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
PR105	1.40E-01	3.06E-02	1.24E-09	6.44E-03	1.77E-01
PR130	1.35E-01	2.71E-02	1.24E-09	5.44E-03	1.68E-01
PR170	1.49E-01	2.61E-02	1.24E-09	5.25E-03	1.81E-01

Table 16. ADP_f LCIA results for each paint product, per 1 m² for 60 years by design life (MJ)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
PR105	5.87E+01	1.46E+01	0.00E+00	3.62E-01	7.37E+01
PR130	8.50E+01	1.36E+01	0.00E+00	1.70E-01	9.88E+01
PR170	9.46E+01	1.33E+01	0.00E+00	1.41E-01	1.08E+02



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Table 17. Total LCIA results for each paint product, per 1 m² for 60 years by market life

SKU	GWP KG CO ₂ EQ.	AP KG SO ₂ EQ.	EP KG N EQ.	ODP KG CFC 11 EQ.	SFP KG O ₃ EQ.	ADPF MJ
PR105	2.62E+00	5.23E-02	8.45E-04	8.41E-14	1.06E-01	4.42E+01
PR130	2.89E+00	3.10E-02	7.86E-04	8.59E-14	1.01E-01	5.93E+01
PR170	3.14E+00	3.48E-02	7.91E-04	9.87E-14	1.08E-01	6.48E+01

Table 18. GWP LCIA results for each paint product, per 1 m² for 60 years by market life (kg CO₂ eq.)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
PR105	2.05E+00	5.23E-01	0.00E+00	4.40E-02	2.62E+00
PR130	2.38E+00	4.72E-01	0.00E+00	3.77E-02	2.89E+00
PR170	2.64E+00	4.60E-01	0.00E+00	3.64E-02	3.14E+00

Table 19. AP LCIA results for each paint product, per 1 m² for 60 years by market life (kg SO₂ eq.)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
PR105	5.11E-02	1.02E-03	0.00E+00	2.13E-04	5.23E-02
PR130	3.00E-02	9.17E-04	0.00E+00	1.80E-04	3.10E-02
PR170	3.37E-02	8.89E-04	0.00E+00	1.74E-04	3.48E-02

Table 20. EP LCIA results for each paint product, per 1 m² for 60 years by market life (kg N eq.)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
PR105	3.47E-04	1.49E-04	0.00E+00	3.49E-04	8.45E-04
PR130	3.59E-04	1.30E-04	0.00E+00	2.98E-04	7.86E-04
PR170	3.78E-04	1.25E-04	0.00E+00	2.88E-04	7.91E-04



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Table 21. ODP LCIA results for each paint product, per 1 m² for 60 years by market life (kg CFC-11 eq.)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
PR105	7.91E-14	3.43E-15	0.00E+00	1.55E-15	8.41E-14
PR130	8.14E-14	3.29E-15	0.00E+00	1.24E-15	8.59E-14
PR170	9.43E-14	3.25E-15	0.00E+00	1.18E-15	9.87E-14

Table 22. SFP LCIA results for each paint product, per 1 m² for 60 years by market life (kg O₃ eq.)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
PR105	8.40E-02	1.83E-02	7.45E-10	3.87E-03	1.06E-01
PR130	8.11E-02	1.63E-02	7.45E-10	3.27E-03	1.01E-01
PR170	8.95E-02	1.57E-02	7.45E-10	3.15E-03	1.08E-01

Table 23. ADPf LCIA results for each paint product, per 1 m² for 60 years by market life (MJ)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
PR105	3.52E+01	8.78E+00	0.00E+00	2.17E-01	4.42E+01
PR130	5.10E+01	8.15E+00	0.00E+00	1.02E-01	5.93E+01
PR170	5.67E+01	7.99E+00	0.00E+00	8.46E-02	6.48E+01





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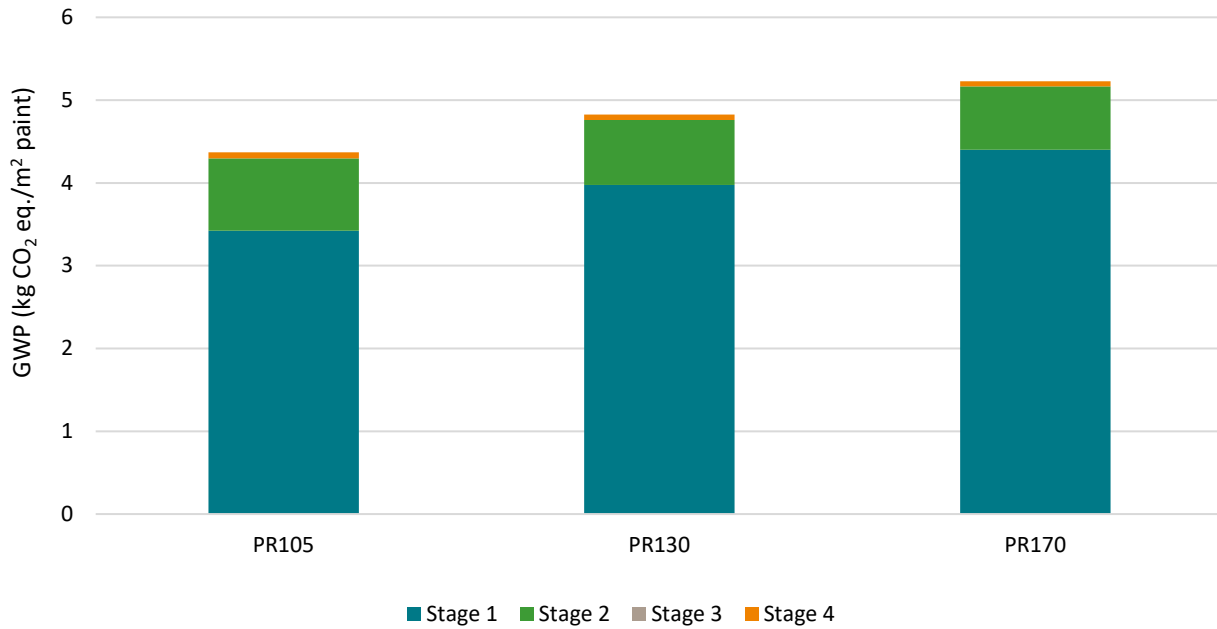


Figure 3: GWP results by stage by design life

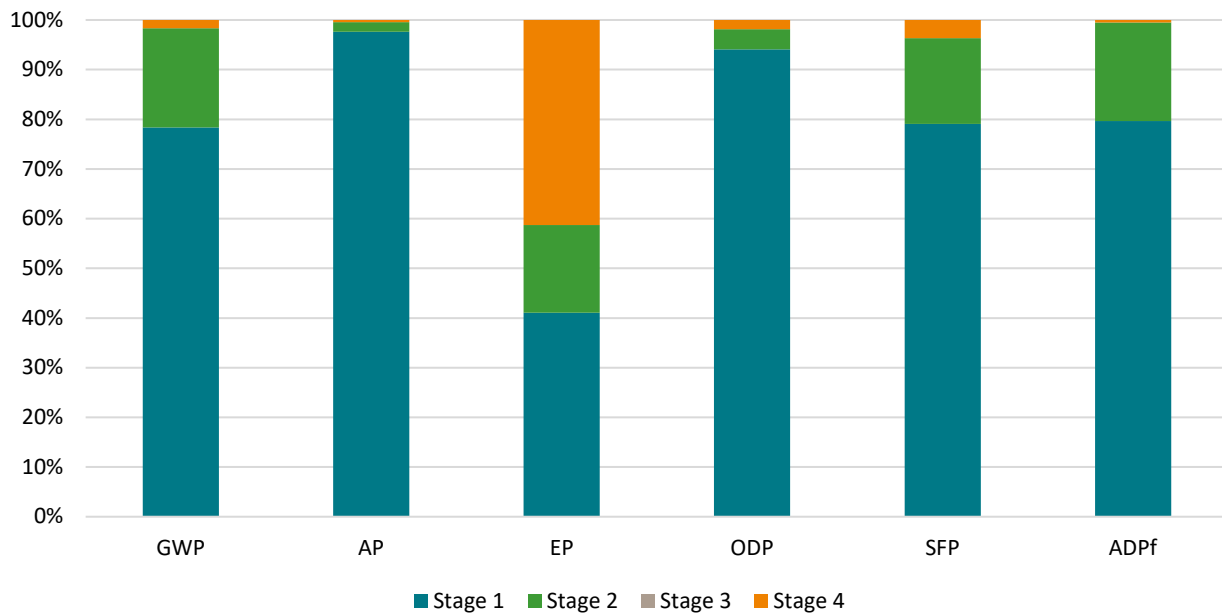


Figure 4. LCIA contribution results for PR105





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3.2. Life Cycle Inventory Results

Table 24. Total resource use results for each paint product, per 1 m² for 60 years by design life

SKU	RPR _E MJ	RPR _M MJ	NRPR _E MJ	NRPR _M MJ	SM KG	RSF MJ	NRSF MJ	RE MJ	FW M ³
PR105	6.05E+00	3.59E-01	6.99E+01	8.31E+00	1.38E-03	0	0	0	2.75E-02
PR130	6.06E+00	3.37E-01	8.46E+01	1.83E+01	1.44E-03	0	0	0	2.66E-02
PR170	6.26E+00	3.36E-01	9.27E+01	1.99E+01	1.43E-03	0	0	0	2.89E-02

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

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR105	5.23E+00	6.99E-01	0.00E+00	1.17E-01	6.05E+00
PR130	5.34E+00	6.23E-01	0.00E+00	9.74E-02	6.06E+00
PR170	5.56E+00	6.07E-01	0.00E+00	9.37E-02	6.26E+00

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

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR105	3.59E-01	0.00E+00	0.00E+00	0.00E+00	3.59E-01
PR130	3.37E-01	0.00E+00	0.00E+00	0.00E+00	3.37E-01
PR170	3.36E-01	0.00E+00	0.00E+00	0.00E+00	3.36E-01

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

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR105	5.46E+01	1.49E+01	0.00E+00	3.71E-01	6.99E+01
PR130	7.06E+01	1.38E+01	0.00E+00	1.72E-01	8.46E+01
PR170	7.90E+01	1.36E+01	0.00E+00	1.42E-01	9.27E+01



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Table 28. NRPRm results for each paint product, for their design life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR105	8.31E+00	0.00E+00	0.00E+00	0.00E+00	8.31E+00
PR130	1.83E+01	0.00E+00	0.00E+00	0.00E+00	1.83E+01
PR170	1.99E+01	0.00E+00	0.00E+00	0.00E+00	1.99E+01

Table 29. SM results for each paint product, for their design life (kg)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR105	1.38E-03	0.00E+00	0.00E+00	0.00E+00	1.38E-03
PR130	1.44E-03	0.00E+00	0.00E+00	0.00E+00	1.44E-03
PR170	1.43E-03	0.00E+00	0.00E+00	0.00E+00	1.43E-03

Table 30. FW results for each paint product, for their design life (m³)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR105	2.32E-02	4.25E-03	0.00E+00	1.30E-05	2.75E-02
PR130	2.27E-02	3.86E-03	0.00E+00	-1.30E-05	2.66E-02
PR170	2.51E-02	3.78E-03	0.00E+00	-1.65E-05	2.89E-02

Table 31. Total Resource use results for each paint product, per 1 m² for 60 years by market life

SKU	RPR _E MJ	RPR _M MJ	NRPR _E MJ	NRPR _M MJ	SM KG	RSF MJ	NRSF MJ	RE MJ	FW m ³
PR105	3.63E+00	2.15E-01	4.19E+01	4.98E+00	8.25E-04	0	0	0	1.65E-02
PR130	3.64E+00	2.02E-01	5.08E+01	1.10E+01	8.62E-04	0	0	0	1.59E-02
PR170	3.75E+00	2.01E-01	5.56E+01	1.19E+01	8.58E-04	0	0	0	1.73E-02

Table 32. RPR_E results for each paint product, per 1 m² for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR105	3.14E+00	4.20E-01	0.00E+00	7.01E-02	3.63E+00
PR130	3.21E+00	3.74E-01	0.00E+00	5.84E-02	3.64E+00
PR170	3.33E+00	3.64E-01	0.00E+00	5.62E-02	3.75E+00





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Table 33. RPRm results for each paint product, per 1 m² for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR105	2.15E-01	0.00E+00	0.00E+00	0.00E+00	2.15E-01
PR130	2.02E-01	0.00E+00	0.00E+00	0.00E+00	2.02E-01
PR170	2.01E-01	0.00E+00	0.00E+00	0.00E+00	2.01E-01

Table 34. NRPRe results for each paint product, per 1 m² for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR105	3.28E+01	8.93E+00	0.00E+00	2.22E-01	4.19E+01
PR130	4.24E+01	8.29E+00	0.00E+00	1.03E-01	5.08E+01
PR170	4.74E+01	8.14E+00	0.00E+00	8.55E-02	5.56E+01

Table 35. NRPRm results for each paint product, per 1 m² for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR105	4.98E+00	0.00E+00	0.00E+00	0.00E+00	4.98E+00
PR130	1.10E+01	0.00E+00	0.00E+00	0.00E+00	1.10E+01
PR170	1.19E+01	0.00E+00	0.00E+00	0.00E+00	1.19E+01

Table 36. SM results for each paint product, per 1 m² for 60 years by market life (kg)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR105	8.25E-04	0.00E+00	0.00E+00	0.00E+00	8.25E-04
PR130	8.62E-04	0.00E+00	0.00E+00	0.00E+00	8.62E-04
PR170	8.58E-04	0.00E+00	0.00E+00	0.00E+00	8.58E-04

Table 37. FW results for each paint product, per 1 m² for 60 years by market life (m³)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR105	1.39E-02	2.55E-03	0.00E+00	7.82E-06	1.65E-02
PR130	1.36E-02	2.32E-03	0.00E+00	-7.77E-06	1.59E-02
PR170	1.51E-02	2.27E-03	0.00E+00	-9.91E-06	1.73E-02



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Table 38. Total output and waste results for each paint product, per 1 m² for 60 years by design life

SKU	HWD %	NHWD %
PR105	0.24%	99.76%
PR130	0.22%	99.78%
PR170	0.19%	99.81%

Table 39. Waste results for each paint product, per 1 m² for 60 years by design life

SKU	Waste	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR105	HWD	7.35%	0.00%	0.00%	0.00%	0.24%
	NHWD	92.65%	0.00%	0.00%	100.00%	99.76%
PR130	HWD	6.18%	0.00%	0.00%	0.00%	0.22%
	NHWD	93.82%	0.00%	0.00%	100.00%	99.78%
PR170	HWD	6.66%	0.00%	0.00%	0.00%	0.19%
	NHWD	93.34%	0.00%	0.00%	100.00%	99.81%

Table 40. Total output and waste results for each paint product, per 1 m² for 60 years by market life

SKU	HWD %	NHWD %
PR105	0.24%	99.76%
PR130	0.22%	99.78%
PR170	0.19%	99.81%

Table 41. Waste results for each paint product, per 1 m² for 60 years by market life

SKU	Waste	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR105	HWD	7.35%	0.00%	0.00%	0.00%	0.24%
	NHWD	92.65%	0.00%	0.00%	100.00%	99.76%
PR130	HWD	6.18%	0.00%	0.00%	0.00%	0.22%
	NHWD	93.82%	0.00%	0.00%	100.00%	99.78%
PR170	HWD	6.66%	0.00%	0.00%	0.00%	0.19%
	NHWD	93.34%	0.00%	0.00%	100.00%	99.81%



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Table 42. Energy resource use results for each paint product, per 1 m² for 60 years by design life

SKU	BIO-ENERGY MJ	FOSSIL ENERGY MJ	HYDRO/WIND ENERGY MJ	NUCLEAR ENERGY MJ	OTHER ENERGY MJ	NON-RENEWABLE RESOURCES KG	RENEWABLE RESOURCES KG
PR105	2.00E-08	7.37E+01	2.34E+00	4.50E+00	4.07E+00	2.07E+00	-3.41E-07
PR130	2.09E-08	9.88E+01	2.27E+00	4.13E+00	4.13E+00	2.66E+00	-3.58E-07
PR170	2.10E-08	1.08E+02	2.53E+00	4.54E+00	4.06E+00	2.90E+00	-3.57E-07

Table 43. Bio-energy results for each paint product, per 1 m² for 60 years by design life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR105	1.76E-08	-1.92E-11	0.00E+00	2.39E-09	2.00E-08
PR130	1.85E-08	-1.69E-11	0.00E+00	2.49E-09	2.09E-08
PR170	1.85E-08	-1.63E-11	0.00E+00	2.48E-09	2.10E-08

Table 44. Fossil energy results for each paint product, per 1 m² for 60 years by design life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR105	5.87E+01	1.46E+01	0.00E+00	3.62E-01	7.37E+01
PR130	8.50E+01	1.36E+01	0.00E+00	1.70E-01	9.88E+01
PR170	9.46E+01	1.33E+01	0.00E+00	1.41E-01	1.08E+02

Table 45. Hydro/ Wind energy results each paint product, per 1 m² for 60 years by design life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR105	2.19E+00	1.27E-01	0.00E+00	2.60E-02	2.34E+00
PR130	2.13E+00	1.22E-01	0.00E+00	2.02E-02	2.27E+00
PR170	2.39E+00	1.20E-01	0.00E+00	1.92E-02	2.53E+00



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Table 46. Nuclear energy results for each paint product, per 1 m² for 60 years by design life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR105	4.23E+00	2.53E-01	0.00E+00	8.45E-03	4.50E+00
PR130	3.88E+00	2.43E-01	0.00E+00	2.35E-03	4.13E+00
PR170	4.30E+00	2.41E-01	0.00E+00	1.45E-03	4.54E+00

Table 47. Other energy results for each paint product, per 1 m² for 60 years by design life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR105	3.40E+00	5.72E-01	0.00E+00	9.07E-02	4.07E+00
PR130	3.55E+00	5.02E-01	0.00E+00	7.72E-02	4.13E+00
PR170	3.50E+00	4.87E-01	0.00E+00	7.45E-02	4.06E+00

Table 48. Non-renewable energy resource results each paint product, per 1 m² for 60 years by design life (kg)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR105	1.59E+00	4.68E-01	0.00E+00	1.02E-02	2.07E+00
PR130	2.22E+00	4.36E-01	0.00E+00	4.83E-03	2.66E+00
PR170	2.47E+00	4.28E-01	0.00E+00	4.00E-03	2.90E+00

Table 49. Renewable energy resource results for each paint product, per 1 m² for 60 years by design life (kg)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR105	7.73E-08	3.20E-11	0.00E+00	-4.18E-07	-3.41E-07
PR130	7.85E-08	4.50E-11	0.00E+00	-4.37E-07	-3.58E-07
PR170	7.76E-08	4.81E-11	0.00E+00	-4.34E-07	-3.57E-07



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Table 50. Energy resource use results for each paint product, per 1 m² 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
PR105	1.20E-08	4.42E+01	1.41E+00	2.70E+00	2.44E+00	1.24E+00	-2.05E-07
PR130	1.26E-08	5.93E+01	1.36E+00	2.48E+00	2.48E+00	1.59E+00	-2.15E-07
PR170	1.26E-08	6.48E+01	1.52E+00	2.73E+00	2.44E+00	1.74E+00	-2.14E-07

Table 51. Bio-energy results for each paint product, per 1 m² for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR105	1.06E-08	-1.15E-11	0.00E+00	1.44E-09	1.20E-08
PR130	1.11E-08	-1.01E-11	0.00E+00	1.50E-09	1.26E-08
PR170	1.11E-08	-9.78E-12	0.00E+00	1.49E-09	1.26E-08

Table 52. Fossil energy results for each paint product, per 1 m² for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR105	3.52E+01	8.78E+00	0.00E+00	2.17E-01	4.42E+01
PR130	5.10E+01	8.15E+00	0.00E+00	1.02E-01	5.93E+01
PR170	5.67E+01	7.99E+00	0.00E+00	8.46E-02	6.48E+01

Table 53. Hydro/ Wind energy results for each paint product, per 1 m² for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR105	1.31E+00	7.62E-02	0.00E+00	1.56E-02	1.41E+00
PR130	1.28E+00	7.29E-02	0.00E+00	1.21E-02	1.36E+00
PR170	1.43E+00	7.21E-02	0.00E+00	1.15E-02	1.52E+00



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Table 54. Nuclear energy results for each paint product, per 1 m² for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR105	2.54E+00	1.52E-01	0.00E+00	5.07E-03	2.70E+00
PR130	2.33E+00	1.46E-01	0.00E+00	1.41E-03	2.48E+00
PR170	2.58E+00	1.44E-01	0.00E+00	8.67E-04	2.73E+00

Table 55. Other energy results for each paint product, per 1 m² for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR105	2.04E+00	3.43E-01	0.00E+00	5.44E-02	2.44E+00
PR130	2.13E+00	3.01E-01	0.00E+00	4.63E-02	2.48E+00
PR170	2.10E+00	2.92E-01	0.00E+00	4.47E-02	2.44E+00

Table 56. Non-renewable resource results for each paint product, per 1 m² for 60 years by market life (kg)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR105	9.55E-01	2.81E-01	0.00E+00	6.14E-03	1.24E+00
PR130	1.33E+00	2.61E-01	0.00E+00	2.90E-03	1.59E+00
PR170	1.48E+00	2.57E-01	0.00E+00	2.40E-03	1.74E+00

Table 57. Renewable resource results for each paint product, per 1 m² for 60 years by market life (kg)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
PR105	4.64E-08	1.92E-11	0.00E+00	-2.51E-07	-2.05E-07
PR130	4.71E-08	2.70E-11	0.00E+00	-2.62E-07	-2.15E-07
PR170	4.66E-08	2.89E-11	0.00E+00	-2.61E-07	-2.14E-07





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4. Additional Environmental Information

4.1. Environmental Activities and Certifications



GREENGUARD Certification

BEHR PRO® i100 Interior 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.



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

BEHR PRO® i100 Interior paints are 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.





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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

For further information visit behr.com and kilz.com.

5. References

- | | |
|-------------|---|
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6. Contact Information

6.1. Study Commissioner



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