

ENVIRONMENTAL PRODUCT DECLARATION

KILZ 3® PREMIUM PRIMER

INTERIOR/EXTERIOR PRIMER



Shown above: KILZ 3® Premium Primer is a GREENGUARD® Gold certified, high hiding, heavy-duty interior/exterior water-based primer, sealer and stainblocker.



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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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	4791080617.130.1	
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/Exterior Primer	
PRODUCT RSL DESCRIPTION (IF APPL.)	10 years market 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

ncss@nsf.org

This declaration was independently verified in accordance with ISO 14025: 2006.

INTERNAL

EXTERNAL

Cooper McCollum

Cooper McCollum, UL Solutions

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:

M.Wildnauer
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

In 1954, Melvin Caldwell started operations for what would later become Masterchem Industries LLC in St. Louis, MO, utilizing a dough mixer he purchased from a nearby bakery to produce the first few batches of the flagship product that would ultimately become KILZ®. The KILZ® brand was first introduced at the 1974 National Paint Show and has since grown into a nationally recognized and distributed brand, chosen by both DIY consumers and industry professionals. Now, as part of Behr Paint Company, KILZ® Paints and Primers have established a reputation as a trusted brand with go-to products that offer consistent, dependable results. With KILZ®, you're buying products with a rich history of expertise and outstanding quality. KILZ® is trusted by DIYers and Professionals alike to deliver excellent, long-lasting results you can be proud of for years to come.

1.2. Product Description

Product Identification

KILZ 3® Premium Primer is a superior quality, fast drying, low odor, very low VOC, water-based primer-sealer-stainblocker. It has excellent adhesion and provides a mildew resistant coating making it ideal for use in moisture-prone areas. KILZ 3® Premium Primer blocks most medium to heavy stains caused by water, tannin, ink, pencil, felt marker and grease. Its thicker high hiding formula hides surface imperfections and prepares the surface better for painting. KILZ 3® Premium Primer is GREENGUARD® GOLD certified and MPI approved offering an interior/exterior primer that meets or exceeds environmental and performance requirements. KILZ 3® Premium Primer is available in quart, gallon and 5-gallon sized containers.

Product Specification

Table 1. Specifications for KILZ 3® Premium Primer

SKU	FILL / MAX TINT LOAD	RESIN TYPE	% SOLIDS BY VOLUME	% SOLIDS BY WEIGHT	FILM THICKNESS @ 300 SQ FT/GL	FILM THICKNESS @ 400 SQ FT/GL	VISCOOSITY (KU)
1300	128 fl oz 2 fl oz	Acrylic Polymer	43% ± 2%	56% ± 2%	Wet: 5.3 mils Dry: 2.3 mils	Wet: 4.0 mils Dry: 1.7 mils	95 – 105



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1.3. Application

Recommended application information for KILZ 3® Premium Primer is as follows:

Brush: Nylon/polyester blend

Roller: 3/8" – 3/4" nap roller cover

Airless Spray:

Tip: .015" - .021"

Filter: 60 mesh

Fluid Pressure: 1,800 – 3,000 psi

Thinning: Not recommended. Product is formulated for use at package consistency only.

The VOC emissions associated with each SKU after application are all <0.22 mg/m³. 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 (g/L)

	1300 – KILZ 3® PREMIUM PRIMER
VOC (g/L of paint)	1.72

1.4. Material Composition

The material composition of the product is shown in Table 3.

Table 3. Material composition range in weight % for KILZ 3® Premium Primer

MATERIAL	2000
Resin/Binder	40 - 45%
Additive	1 - 5%
Biocide	0.1 - 1%
Colorant	0.01 – 1%
Extender Pigment	20 – 25%



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MATERIAL	2000
Pigment (TiO2)	10 - 15%
Water	15 – 20%

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 cans, and/or pails, which are then labeled, boxed, and loaded onto pallets for distribution.

Flow Diagram

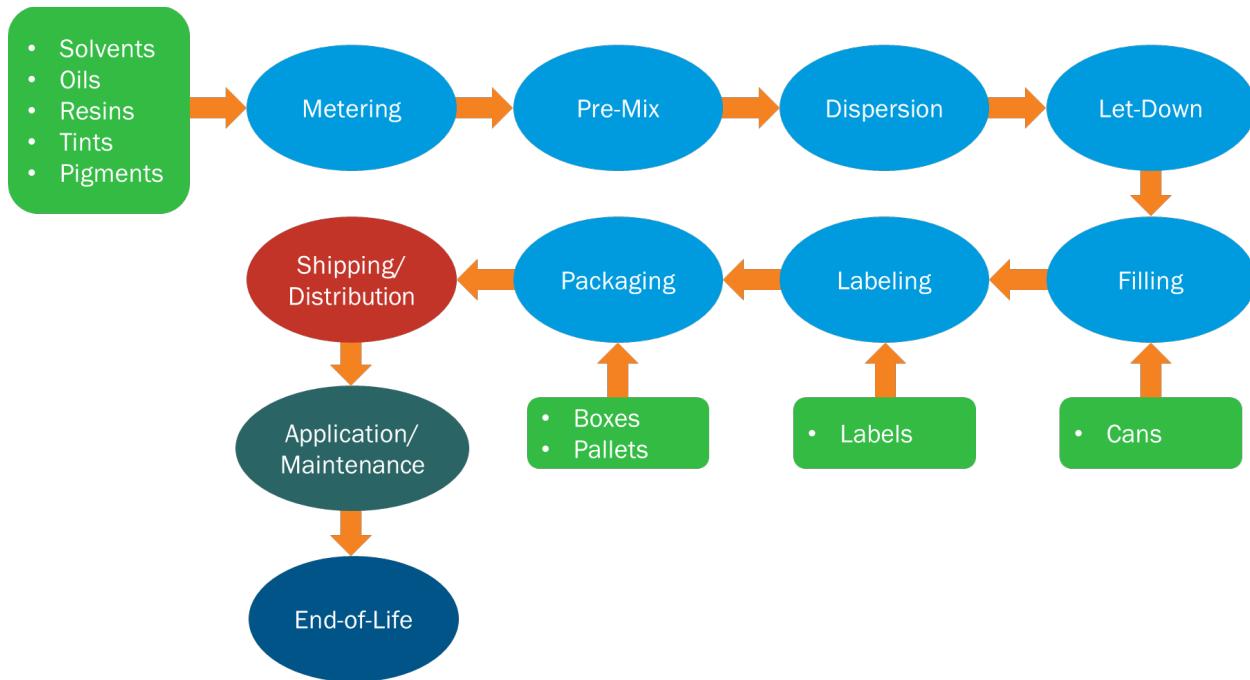


Figure 1. Flow diagram for cradle-to-grave LCA of KILZ 3® Premium Primer

1.6. Packaging

Table 4 provides descriptions, volumes, and materials for the primary paint packaging used for KILZ 3® Premium Primer. These packages are then placed in cardboard boxes and loaded onto heat-treated wooden pallets for distribution.

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Table 4. Description of primary paint packaging

CONTAINER	VOLUME	MATERIAL
Can	Quart or 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. KILZ 3® Premium Primer is considered a low-VOC product.

1.9. Reference Service Life and Estimated Building Service Life

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.

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 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 the market life as prescribed by the PCR. Only a market-based lifetime is utilized because primers do not merit the types of performance testing outlined in the PCR. The lifetime and reference flow are shown in Table 5.

For further technical information on KILZ 3® Premium Primer, visit www.kilz.com.

Table 5. Sheen, base, market life, and reference flows for the product

SKU	SHEEN	BASE	MARKET LIFETIME (YEARS)	PAINT PER UNIT AREA (KG/M ²)	COLORANT PER UNIT AREA (KG/M ²)
1300	Flat	White	10	0.133	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 KILZ 3® Premium Primer sold in the North American market for the reference year 2021.

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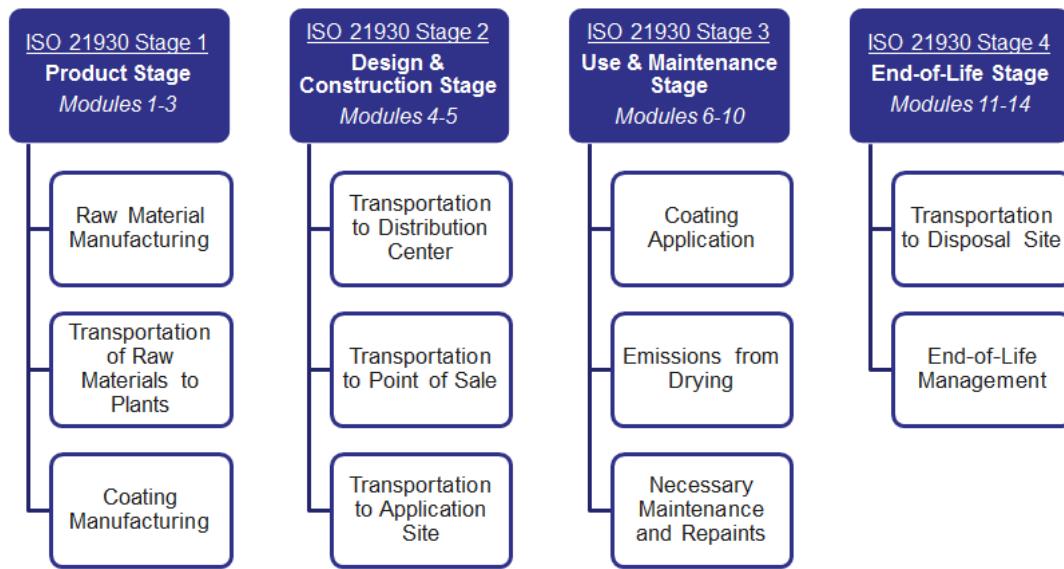


Figure 2. System boundaries for cradle to grave LCA

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 six of Behr's production facilities that produce KILZ 3® Premium Primer. Those facilities are located in: Chicago Heights, IL; St. Louis, MO; Allentown, PA; Roanoke, TX; McDonough, GA 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 six 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 6). 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 market life for each impact category are provided in Table 7.

Furthermore, the results of each impact category for each stage are presented in Table 8 to Table 13. Additionally, in this section, the LCI results for each stage are presented along with the total LCI results for each impact category.

3.1. Life Cycle Impact Assessment Results

Table 6. 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.
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.
ADPf	Abiotic resource potential for fossil resources	CML 2001	MJ

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Table 7. Total LCIA results for KILZ 3® Premium Primer, 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
1300	1.52E+00	1.66E-02	4.17E-04	4.88E-14	5.34E-02	3.07E+01

Table 8. GWP LCIA results for KILZ 3® Premium Primer, per 1 m² for 60 years by market life (kg CO₂ eq.)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
1300	1.26E+00	2.47E-01	0.00E+00	1.67E-02	1.52E+00

Table 9. AP LCIA results for KILZ 3® Premium Primer, per 1 m² for 60 years by market life (kg SO₂ eq.)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
1300	1.60E-02	4.79E-04	0.00E+00	9.28E-05	1.66E-02

Table 10. EP LCIA results for KILZ 3® Premium Primer, per 1 m² for 60 years by market life (kg N eq.)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
1300	1.89E-04	6.89E-05	0.00E+00	1.59E-04	4.17E-04

Table 11. ODP LCIA results for KILZ 3® Premium Primer, per 1 m² for 60 years by market life (kg CFC-11 eq.)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
1300	4.64E-14	1.67E-15	0.00E+00	6.74E-16	4.88E-14

Table 12. SFP LCIA results for KILZ 3® Premium Primer, per 1 m² for 60 years by market life (kg O₃ eq.)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
1300	4.31E-02	8.57E-03	3.72E-10	1.73E-03	5.34E-02



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Table 13. ADPf LCIA results for KILZ 3® Premium Primer, per 1 m² for 60 years by market life (MJ)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
1300	2.65E+01	4.20E+00	0.00E+00	4.82E-02	3.07E+01

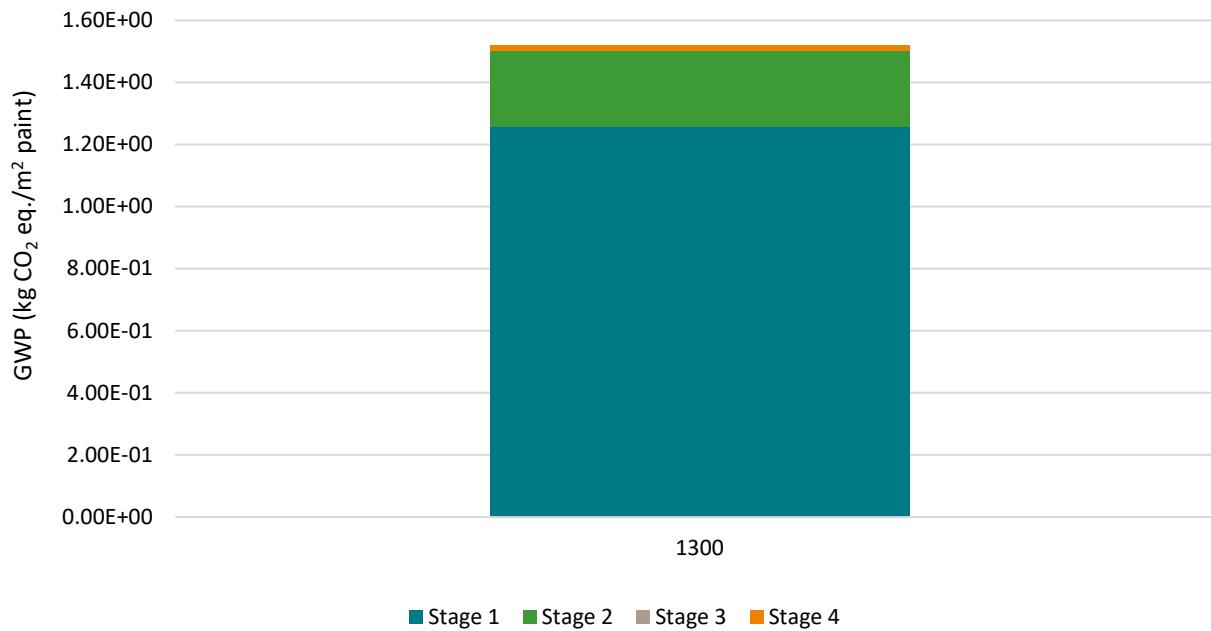


Figure 3: GWP results by stage by market life

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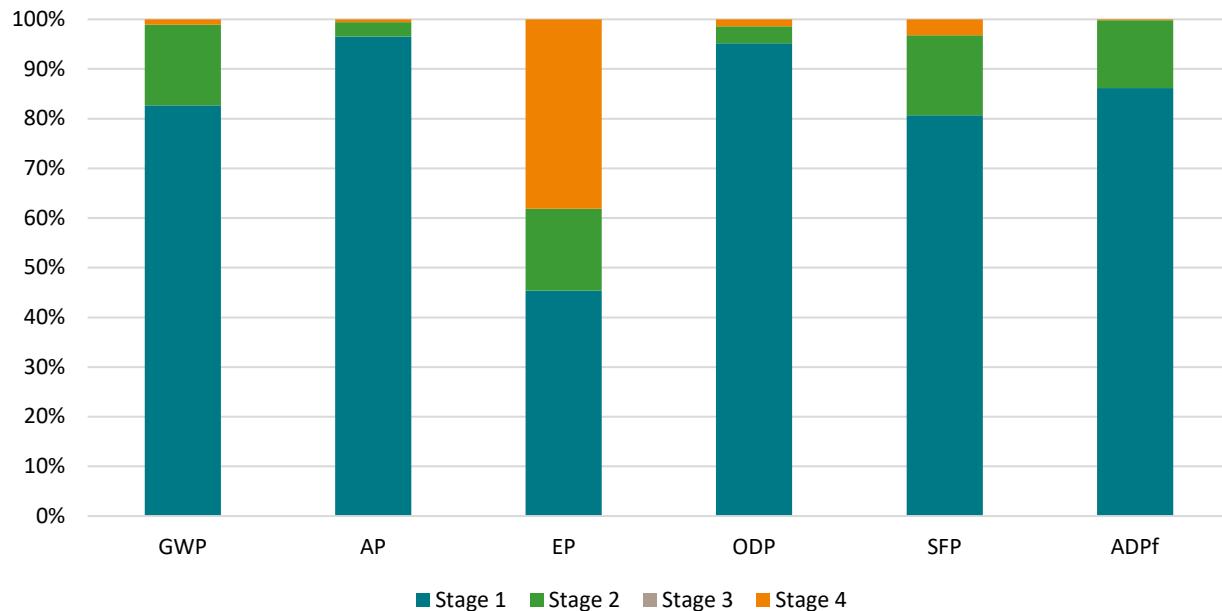


Figure 4. LCIA contribution results for 1300

3.2. Life Cycle Inventory Results

Table 14. Total Resource use results for KILZ 3® Premium Primer, 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
1300	2.00E+00	1.65E-01	2.69E+01	5.23E+00	7.26E-04	0	0	0	8.36E-03

Table 15. RPR_E results for KILZ 3® Premium Primer, per 1 m² for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
1300	1.77E+00	1.96E-01	0.00E+00	3.45E-02	2.00E+00

Table 16. RPR_M results for KILZ 3® Premium Primer, per 1 m² for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
1300	1.65E-01	0.00E+00	0.00E+00	0.00E+00	1.65E-01



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Table 17. NRPRe results for KILZ 3® Premium Primer, per 1 m² for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
1300	2.25E+01	4.28E+00	0.00E+00	5.14E-02	2.69E+01

Table 18. NRPRm results for KILZ 3® Premium Primer, per 1 m² for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
1300	5.23E+00	0.00E+00	0.00E+00	0.00E+00	5.23E+00

Table 19. SM results for KILZ 3® Premium Primer, per 1 m² for 60 years by market life (kg)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
1300	7.26E-04	0.00E+00	0.00E+00	0.00E+00	7.26E-04

Table 20. FW results for KILZ 3® Premium Primer, per 1 m² for 60 years by market life (m³)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
1300	7.17E-03	1.21E-03	0.00E+00	-1.69E-05	8.36E-03

Table 21. Total output and waste results for KILZ 3® Premium Primer, per 1 m² for 60 years by market life

SKU	HWD %		NHWD %	
1300		0.24%		99.76%

Table 22. Waste results for KILZ 3® Premium Primer, per 1 m² for 60 years by market life

SKU	Waste	Stage 1	Stage 2	Stage 3	Stage 4	Total
1300	HWD	5.82%	0.00%	0.00%	0.00%	0.24%
	NHWD	94.18%	0.00%	0.00%	100.00%	99.76%



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Table 23. Energy resource use results for KILZ 3® Premium Primer, 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
1300	1.03E-08	3.07E+01	7.48E-01	1.34E+00	1.42E+00	8.23E-01	-1.78E-07

Table 24. Bio-energy results for KILZ 3® Premium Primer, per 1 m² for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
1300	9.09E-09	-5.36E-12	0.00E+00	1.26E-09	1.03E-08

Table 25. Fossil energy results for KILZ 3® Premium Primer, per 1 m² for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
1300	2.65E+01	4.20E+00	0.00E+00	4.82E-02	3.07E+01

Table 26. Hydro/ Wind energy results for KILZ 3® Premium Primer, per 1 m² for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
1300	7.03E-01	3.71E-02	0.00E+00	7.76E-03	7.48E-01

Table 27. Nuclear energy results for KILZ 3® Premium Primer, per 1 m² for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
1300	1.26E+00	7.41E-02	0.00E+00	3.15E-03	1.34E+00

Table 28. Other energy results for KILZ 3® Premium Primer, per 1 m² for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
1300	1.24E+00	1.59E-01	0.00E+00	2.67E-02	1.42E+00



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Table 29. Non-renewable resource results for KILZ 3® Premium Primer, per 1 m² for 60 years by market life (kg)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
1300	6.88E-01	1.35E-01	0.00E+00	9.38E-04	8.23E-01

Table 30. Renewable resource results for KILZ 3® Premium Primer, per 1 m² for 60 years by market life (kg)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
1300	4.25E-08	1.19E-11	0.00E+00	-2.21E-07	-1.78E-07

4. Additional Environmental Information

4.1. Environmental Activities and Certifications

GREENGUARD Certification



KILZ 3® Premium Primer is 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)

KILZ 3® Premium Primer 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:



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- 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

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

5. References

LCA EF 2023	Sphera Solutions Inc; Life Cycle Assessment for Experts: Software-System and Database for Life Cycle Engineering. Chicago, IL, USA, 1992-2023. https://sphera.com/life-cycle-assessment-lca-database/
IPCC 2013	IPCC. (2013). <i>Climate Change 2013: The Physical Science Basis</i> . Genf, Schweiz: IPCC.
ISO 14025	ISO 14025:2011-10 Environmental labels and declarations - Type III environmental declarations - Principles and procedures
ISO 14040	ISO 14040:2009-11 Environmental management - Life cycle assessment - Principles and framework
ISO 14044	ISO 14044:2006-10 Environmental management - Life cycle assessment - Requirements and guidelines
NSF 2015	NSF. (2015). <i>Product Category Rule (PCR) for Architectural Coatings</i> . USA: NSF: https://d2evkimvhatqav.cloudfront.net/documents/pcr_architectural_coatings_2022_ext.pdf?v=1657221210
USEPA 2012	NUS Environmental Protection Agency. (2012). <i>Tool for the Reduction and Assessment of Chemical and other Environmental Impacts (TRACI) – User's Manual</i> . Washington, D.C.: U.S. EPA.



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USEPA 2020 US Environmental Protection Agency. (2015, June). *Advancing Sustainable Materials Management: 2018 Tables and Figures. Assessing Trends in Material Generation, Recycling and Disposal in the United States*. Retrieved from US EPA: https://www.epa.gov/sites/default/files/2021-01/documents/2018_tables_and_figures_dec_2020_fnl_508.pdf

6. Contact Information

6.1. Study Commissioner

Behr Paint Company

Phone number: (714) 545-7101

Email: kbird@behr.com

1801 E. St. Andrew Place, Santa Ana, CA 92705

www.behr.com



6.2. LCA Practitioner

Sphera Solutions Inc.

servicequality@sphera.com

130 E Randolph St #2900. Chicago, IL 6060

www.sphera.com

