# BEHR PREMIUM<sup>®</sup> CONCRETE & MASONRY PROTECTOR & WATERPROOFER

CONCRETE WATERPROOFER

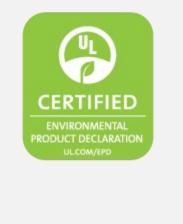


Shown above: BEHR PREMIUM<sup>®</sup> Concrete & Masonry Protector & Waterproofer is formulated with silicone to penetrate into the surface to keep water out and shield against salt damage and corrosion.

BEHRER Paint Company Behr Paint Company, producer of BEHR<sup>\*</sup> and KILZ<sup>\*</sup>

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.

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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	www.ul.com < IL, 60062 www.spot.ul.com
GENERAL PROGRAM INSTRUCTIONS AND VERSION NUMBER	Program Operator Rules v 2.	
MANUFACTURER NAME AND ADDRESS	Behr Process LLC 1801 E St Andrew PI, Santa	Ana, CA 92705
DECLARATION NUMBER	4791080617.134.1	
DECLARED PRODUCT & FUNCTIONAL UNIT OR DECLARED UNIT	1m <sup>2</sup> of covered and protected drying	d substrate for a period of 60 years with 97% opacity after
REFERENCE PCR AND VERSION NUMBER	PCR for architectural coating	g: NAICS 325510, NSF (2022)
DESCRIPTION OF PRODUCT APPLICATION/USE	Concrete Waterproofer	
PRODUCT RSL DESCRIPTION (IF APPL.)	5 years market life and 5 yea	ars design life used over a 60 year estimated building life
MARKETS OF APPLICABILITY	North America	
DATE OF ISSUE	November 11, 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 (fk	a GaBi) v10.7.0.183
LCI DATABASE(S) & VERSION NUMBER	Sphera's Managed LCA Con	itent (fka GaBi) 2023.1
LCIA METHODOLOGY & VERSION NUMBER	IPCC AR5, TRACI 2.1, CML	2001 (2013)
		NSF International
The PCR review was conducted by:		PCR Review Panel
		ncss@nsf.org
This declaration was independently verified in acco	rdance with ISO 14025 <sup>,</sup> 2006	,
□ INTERNAL		Cooper McCollium III Solutions
		Cooper McCollum, UL Solutions
This life cycle assessment was conducted in accord the reference PCR by:	dance with ISO 14040/44 and	Sphera
This life avala approximant was independently want	od in apportance with ISO	Mevildun
This life cycle assessment was independently verifi 14044 and the reference PCR by:		maan
		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.

<u>Comparability</u>: 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 PREMIUM® Concrete & Masonry Protector & Waterproofer is a premium, interior/exterior, waterproofing formula that uses a water-based, silicone technology designed to penetrate surfaces up to ½". This waterproofer creates a barrier inside the surface that keeps water out, but lets trapped water vapors escape; reducing corrosion, spalling, efflorescence and freeze-thaw damage. It reduces staining due to mold and mildew and ensures greater durability of the surface. This product is available in gallon and 5-gallon sized containers.

### **Product Specification**

#### Table 1. Specifications for BEHR PREMIUM® Concrete & Masonry Protector & Waterproofer

SKU	FILL / MAX TINT LOAD	GLOSS @ 60°	Sheen @ 85°	RESIN TYPE	% Solids by Volume	% Solids by Weight	COVERAGE SQ FT/GL	VISCOSITY (SEC, #1 ZAHN CUP)
980	128 fl oz 0 fl oz	-	-	-	6% ± 2%	6% ± 2%	250 sq ft/gl	25 – 35





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### 1.3. Application

Recommended application information for BEHR PREMIUM® Concrete & Masonry Protector & Waterproofer is as follows:

Brush: Nylon/polyester

Roller: 3/8" - 1/2" nap, depending on surface texture

Airless Spray: Tip: .015" - .019" Filter: 60 mesh Fluid Pressure: 1,400 – 2,400 psi

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

Behr Paint Company does not have emissions data for BEHR PREMIUM® Concrete & Masonry Protector & Waterproofer so calculations were made utilizing the VOC content which is shown in the table below. Federally accepted test methods outlined by the EPA were used to determine the VOC content. VOC content in g/L for each SKU is shown in Table 2.

#### Table 2. VOC content for BEHR PREMIUM® Concrete & Masonry Protector & Waterproofer (g/L)

	980
VOC – Low Solids (g/L of paint)	15.95

### 1.4. Material Composition

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





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Table 3. Material composition range in weight % for BEHR PREMIUM® Concrete & Masonry Protector & Waterproofer

MATERIAL	980
Resin/Binder	10 - 15%
Biocide	0.1 - 1%
Water	85 - 90%

#### 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**

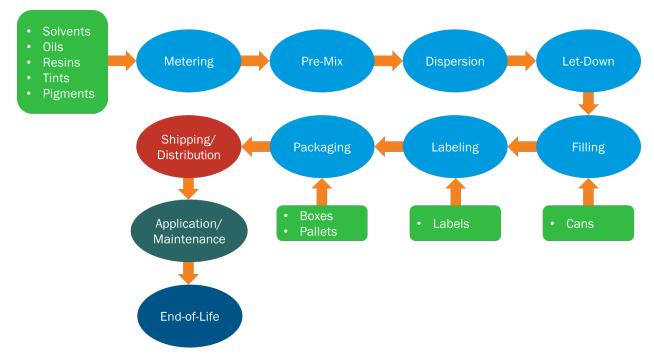


Figure 1. Flow diagram for cradle-to-grave LCA of BEHR PREMIUM® Concrete & Masonry Protector & Waterproofer





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### 1.6. Packaging

Table 4 provides descriptions, volumes, and materials for the primary paint packaging used for BEHR PREMIUM® Concrete & Masonry Protector & Waterproofer. These packages are then placed in cardboard boxes and loaded onto heat-treated wooden pallets for distribution.

#### Table 4. Description of primary packaging

CONTAINER	VOLUME	MATERIAL
F-Style Jug	Gallon	High Density Polyethylene
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.

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

Table 5 shows the design lifetime for concrete stains of different quality. BEHR PREMIUM® Concrete & Masonry Protector & Waterproofer is considered low quality, and therefore has a design life of 5 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 5	. Design lifetime of (	Concrete Stains	
COATING TYPE	LOW QUALITY	MID QUALITY	HIGH QUALITY	ALTERNATIVE
Concrete Stain	5 years	10 years	20 years	Warranty

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### 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.

### 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

### \*This product is categorized as a concrete stain and we kept the functional unit as such however the product is transparent rather than opaque.

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 concrete stain is 5 years. The design life is based on the quality as determined by ASTM test methods outlined per product category in the PCR and is shown in Table 5. Lifetimes and reference flows for each sheen and base combination are shown in Table 6. Results were calculated for all base formulations.

For further technical information on BEHR PREMIUM® Concrete & Masonry Protector & Waterproofer, visit <u>www.behr.com</u>.

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> )
980	N/A	White	5	5	0.162	0.0075

#### Table 6. Sheen, base, design life, market life, and reference flows for each product



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### 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 all of the BEHR PREMIUM® Concrete & Masonry Protector & Waterproofer sold in the North American market for the reference year 2021.

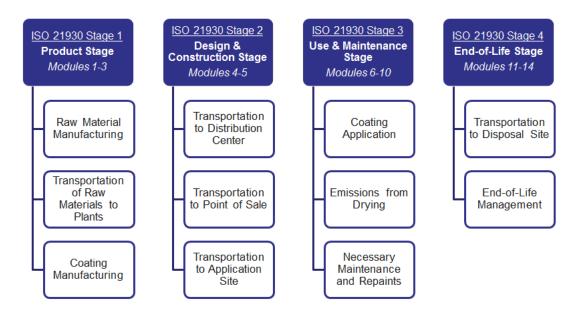


Figure 2. System boundaries for cradle to grave LCA

### 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.





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### 2.4. Cut-off Criteria

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

### 2.5. Data Sources and Quality

Primary data, for the 2021 reference year, was obtained from the one of Behr's production facilities that produced BEHR PREMIUM® Concrete & Masonry Protector & Waterproofer. The facility is located in: Chicago Heights, IL. Background data was obtained from the GaBi 2023.1 database and is representative of the years 2012-2021. Overall, both primary and background data are representative of the product system and have been deemed very good quality.

#### 2.6. Period under Review

The period under review is 2021.

### 2.7. Allocation

Manufacturing inputs for the facility were allocated to each 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 7). 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 8 and Table 15, respectively.

Furthermore, the results of each impact category for each stage are presented in Table 9 to Table 14 and from Table 16 to Table 21. 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.





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### 3.1. Life Cycle Impact Assessment Results

	Table 7. Environmental impact categori	es 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 O₃ eq.
ADPf	Abiotic resource potential for fossil resources	CML 2001	MJ

Table 8. Total LCIA results for every product, per 1 m<sup>2</sup> for 60 years by design life

OKU	GWP	AP	EP	ODP	SFP	ADPF
SKU	KG CO₂ EQ.	к <b>с SO</b> ₂ е <b>Q</b> .	KG <b>N</b> EQ.	к <mark>G CFC-11</mark> EQ.	KG <b>O</b> ₃ EQ.	MJ
980	3.23E+00	7.23E-03	9.45E-04	1.55E-13	1.99E-01	5.09E+01

Table 9. GWP LCIA results for every 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
980	2.51E+00	6.64E-01	0.00E+00	5.17E-02	3.23E+00

#### Table 10. AP LCIA results for every 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
980	5.73E-03	1.27E-03	0.00E+00	2.38E-04	7.23E-03







### According to ISO 14025, ISO 21930

Table 11. EP LCIA results for every product, per 1 m <sup>2</sup> for 60 years by design life (kg N e
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SKU	STAGE 1	STAGE 2	STAGE 3	Stage 4	TOTAL
980	3.84E-04	1.72E-04	0.00E+00	3.89E-04	9.45E-04

### Table 12. ODP LCIA results for every 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
980	1.49E-13	5.04E-15	0.00E+00	1.47E-15	1.55E-13

### Table 13. SFP LCIA results for every 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
980	8.66E-02	2.17E-02	8.64E-02	4.26E-03	1.99E-01

### Table 14. ADP<sub>f</sub> LCIA results for every product, per 1 m<sup>2</sup> for 60 years by design life (MJ)

SKU	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
980	3.90E+01	1.19E+01	0.00E+00	1.56E-02	5.09E+01

### Table 15. Total LCIA results for every product, per 1 m<sup>2</sup> for 60 years by market life

0//11	GWP	WP AP EP		ODP	SFP	ADPF
SKU	KG CO₂ EQ.	κg <b>SO</b> ₂ eq.	KG <b>N</b> EQ.	кg CFC 11 eq.	KG <b>O</b> 3 EQ.	MJ
980	3.23E+00	7.23E-03	9.45E-04	1.55E-13	1.99E-01	5.09E+01

#### Table 16. GWP LCIA results for every 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	
980	2.51E+00	6.64E-01	0.00E+00	5.17E-02	3.23E+00	







### According to ISO 14025, ISO 21930

Table 17. AP LCIA results for every 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
980	5.73E-03	1.27E-03	0.00E+00	2.38E-04	7.23E-03

### Table 18. EP LCIA results for every 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
980	3.84E-04	1.72E-04	0.00E+00	3.89E-04	9.45E-04

#### Table 19. ODP LCIA results for every 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
980	1.49E-13	5.04E-15	0.00E+00	1.47E-15	1.55E-13

### Table 20. SFP LCIA results for every 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
980	8.66E-02	2.17E-02	8.64E-02	4.26E-03	1.99E-01

### Table 21. ADPf LCIA results for every product, per 1 m<sup>2</sup> for 60 years by market life (MJ)

SKU	Stage 1	STAGE 2	Stage 3	STAGE 4	TOTAL
980	3.90E+01	1.19E+01	0.00E+00	1.56E-02	5.09E+01

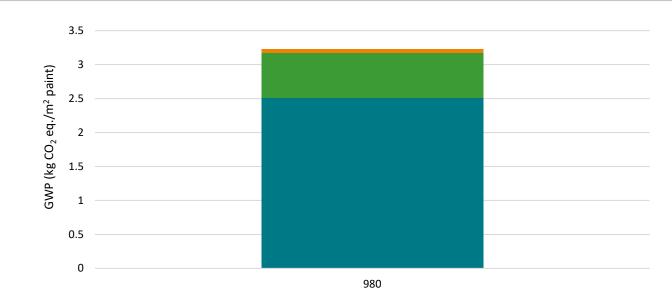




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■ Stage 1 ■ Stage 2 ■ Stage 3 ■ Stage 4



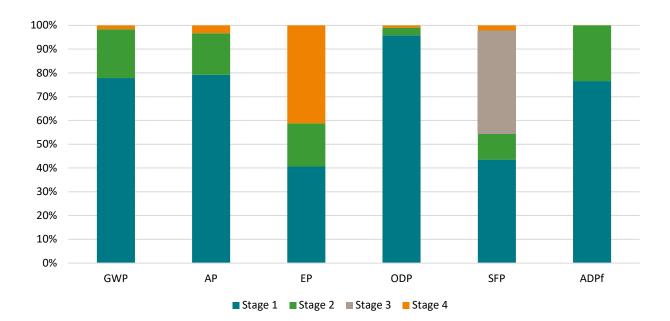


Figure 4. LCIA contribution results for 980







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### 3.2. Life Cycle Inventory Results

	Table 22. Total resource use results for every 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 кg	RSF MJ	NRSF MJ	RE MJ	FW M <sup>3</sup>
980	1.64E+01	4.25E-01	4.37E+01	1.21E+01	1.27E-03	0	0	0	3.02E-02

#### Table 23. RPRe results for every product, for their design life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
980	1.58E+01	5.20E-01	0.00E+00	7.29E-02	1.64E+01

Table 24. RPRm	results for	everv	product.	for their	design	life	(MJ)	
	i counto i oi	Crury	product,	ior then	acoign		(1110)	

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
980	4.25E-01	0.00E+00	0.00E+00	0.00E+00	4.25E-01

#### Table 25. NRPRe results for every product, for their design life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
980	3.15E+01	1.22E+01	0.00E+00	1.17E-02	4.37E+01

#### Table 26. NRPRm results for every product, for their design life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
980	1.21E+01	0.00E+00	0.00E+00	0.00E+00	1.21E+01

Table 27. SM	results for every p	product, for their d	lesign life (kg)	

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
980	1.27E-03	0.00E+00	0.00E+00	0.00E+00	1.27E-03









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Table 28. FW results for every product, for their design life (m <sup>3</sup> )							
SKU Stage 1 Stage 2 Stage 3 Stage 4 Total							
980 2.69E-02 3.32E-03 0.00E+00 -2.66E-05 3.02E-02							

### Table 29. Total Resource use results for every 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 кg		NRSF MJ		
980	1.64E+01	4.25E-01	4.37E+01	1.21E+01	1.27E-03	0	0	0	3.02E-02

### Table 30. RPRe results for every product, per 1 m<sup>2</sup> for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
980	1.58E+01	5.20E-01	0.00E+00	7.29E-02	1.64E+01

### Table 31. RPRm results for every product, per 1 m<sup>2</sup> for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
980	4.25E-01	0.00E+00	0.00E+00	0.00E+00	4.25E-01

### Table 32. NRPRe results for every product, per 1 m<sup>2</sup> for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
980	3.15E+01	1.22E+01	0.00E+00	1.17E-02	4.37E+01

### Table 33. NRPRm results for every product, per 1 m<sup>2</sup> for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
980	1.21E+01	0.00E+00	0.00E+00	0.00E+00	1.21E+01









### According to ISO 14025, ISO 21930

Table 34. SM results for every product, per 1 m <sup>2</sup> for 60 years by market life (kg)							
SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total		
980	1.27E-03	0.00E+00	0.00E+00	0.00E+00	1.27E-03		

Table 35. FW results for ever	w product por 1 m <sup>2</sup> for 6	0 years by market life (m <sup>3</sup> )
Table 35. FW results for ever	y product, per 1 m- for 6	U years by market me (m <sup>*</sup> )

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
980	2.69E-02	3.32E-03	0.00E+00	-2.66E-05	3.02E-02

### Table 36. Total output and waste results for every product, per 1 m<sup>2</sup> for 60 years by design life

SKU	HWD %	NHWD %
980	0.78%	99.22%

### Table 37. Waste results for every product, per 1 m<sup>2</sup> for 60 years by design life

SKU	Waste	Stage 1	Stage 2	Stage 3	Stage 4	Total
000	HWD	4.83%	0.00%	0.00%	0.00%	0.78%
980	NHWD	95.17%	0.00%	0.00%	100.00%	99.22%

### Table 38. Total output and waste results for every product, per 1 m<sup>2</sup> for 60 years by market life

SKU	HWD %	NHWD %
980	0.78%	99.22%

## Table 39. Waste results for every product, per 1 m² for 60 years by market life KII Waste Stage 1 Stage 2 Stage 3 Stage 4 Tot

SKU	Waste	Stage 1	Stage 2	Stage 3	Stage 4	Total
980	HWD	4.83%	0.00%	0.00%	0.00%	0.78%
900	NHWD	95.17%	0.00%	0.00%	100.00%	99.22%







According to ISO 14025, ISO 21930

	Table 40. Energy resource use results for every 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		
980	1.89E-08	5.09E+01	4.17E+00	4.86E+00	1.27E+01	1.47E+00	-3.15E-07		

### Table 41. Bio-energy results for every product, per 1 m<sup>2</sup> for 60 years by design life (MJ)

SKU	Stage 1	Stago 2	Stage 3	Stage 4	Total
	3	Stage 2	oluge e	olugo i	
980	1.67E-08	-1.35E-11	0.00E+00	2.21E-09	1.89E-08

Table 42. Fossil energy results	for every produ	ct, per 1 m <sup>2</sup> for 60	years by design life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
980	3.90E+01	1.19E+01	0.00E+00	1.56E-02	5.09E+01

Table 43. Hydro/ Wind energy	results every product,	, per 1 m <sup>2</sup> for 60 year	s by design life (MJ)
	,,,,	,	·

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
980	4.05E+00	1.12E-01	0.00E+00	1.34E-02	4.17E+00

### Table 44. Nuclear energy results for every product, per 1 m<sup>2</sup> for 60 years by design life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
980	4.64E+00	2.24E-01	0.00E+00	-3.94E-03	4.86E+00

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

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
980	1.22E+01	4.09E-01	0.00E+00	5.95E-02	1.27E+01







#### According to ISO 14025, ISO 21930

Table 46. Non-renewable energy resource results every product, per 1 m <sup>2</sup> for 60 years by design life (kg)									
SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total				
980	1.09E+00	3.84E-01	0.00E+00	6.32E-04	1.47E+00				

Table 47. Renewable energy resource results for every product, per 1 m <sup>2</sup> for 60 years by design life (kg)								
SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total			
980	7.20E-08	5.93E-11	0.00E+00	-3.87E-07	-3.15E-07			

Table 48. Energy resource use results for every 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
980	1.89E-08	5.09E+01	4.17E+00	4.86E+00	1.27E+01	1.47E+00	-3.15E-07

### Table 49. Bio-energy results for every product, per 1 m<sup>2</sup> for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
980	1.67E-08	-1.35E-11	0.00E+00	2.21E-09	1.89E-08

### Table 50. Fossil energy results for every product, per 1 m<sup>2</sup> for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
980	3.90E+01	1.19E+01	0.00E+00	1.56E-02	5.09E+01

### Table 51. Hydro/ Wind energy results for every product, per 1 m<sup>2</sup> for 60 years by market life (MJ)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
980	4.05E+00	1.12E-01	0.00E+00	1.34E-02	4.17E+00



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#### According to ISO 14025, ISO 21930

Table 52. Nuclear energy results for every product, per 1 m <sup>2</sup> for 60 years by market life (MJ)								
SKU Stage 1 Stage 2 Stage 3 Stage 4 Total								
980	4.64E+00	2.24E-01	0.00E+00	-3.94E-03	4.86E+00			

Table 53. Other energy results for every product, per 1 m <sup>2</sup> for 60 years by market life (MJ)								
SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total			
980	1.22E+01	4.09E-01	0.00E+00	5.95E-02	1.27E+01			

### Table 54. Non-renewable resource results for every product, per 1 m<sup>2</sup> for 60 years by market life (kg)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
980	1.09E+00	3.84E-01	0.00E+00	6.32E-04	1.47E+00

### Table 55. Renewable resource results for every product, per 1 m<sup>2</sup> for 60 years by market life (kg)

SKU	Stage 1	Stage 2	Stage 3	Stage 4	Total
980	7.20E-08	5.93E-11	0.00E+00	-3.87E-07	-3.15E-07

### 4. Additional Environmental Information

### 4.1. Further Information

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





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### 6. Contact Information

6.1. Study Commissioner	
	Behr Paint Company
	Phone number: (714) 545-7101
BEHR	Email: kbird@behr.com
	1801 E. St. Andrew Place, Santa Ana, CA 92705
	www.behr.com







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### 6.2. LCA Practitioner

Sphera Solutions Inc.



servicequality@sphera.com

130 E Randolph St #2900. Chicago, IL 6060

www.sphera.com

