

Environmental Product Declaration

USG Levelrock® Brand Wood Primer

Gypsum, OH and Walworth, WI



High-quality floor underlayment primer

- Enhances bond between subfloor and underlayment
- Low odor
- Fast-drying
- Resists mold
- This product has been tested per CDPH 01350 Standard Method V1.2 and meets the requirements for classroom, office, and residence use.



| 1 SQUARE METER OF APPLIED COATING AT THE STANDARD APPLICATION RATE FOR NONPOROUS SUBFLOORS - 5-GALLON PAIL | CRADLE-TO-GRAVE (A1-C4) |
|--|-------------------------|
| Global Warming Potential (kg CO₂ eq.) | 6.31E-02 |
| Ozone Depletion Potential (kg CFC 11 eq.) | 4.15E-16 |
| Acidification Potential (kg SO₂ eq.) | 1.53E-04 |
| Eutrophication Potential (kg N eq.) | 1.26E-05 |
| Photochemical Ozone Creation Potential (kg O₃ eq.) | 2.87E-03 |
| Abiotic Resource Depletion Potential Fossil Fuels (MJ, LHV) | 2.35E-01 |

For over a century, sustainable practices have naturally been an inherent part of our business at USG and CGC. Today, they help shape the innovative products that become the homes where we live, the buildings where we work and the arenas where we play. From the product formulations we choose, to the processes we employ, USG and CGC are committed to designing, manufacturing, and distributing products that minimize overall environmental impacts and contribute toward a healthier living space. We believe that transparency of product information is essential for our stakeholders and Environmental Product Declarations (EPDs) are the next step toward an even more transparent USG and CGC. For additional information, visit usg.com, cgcinc.com and usg.ecomedes.com.



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This declaration is an Environmental Product Declaration (EPD) in accordance with ISO 14025 and ISO 21930; 2017. EPDs rely on Life Cycle Assessment (LCA) to provide information on a number of environmental impacts of products over their life cycle.

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, and the level of accuracy in estimation of effect differs for any particular product line and reported impact.

Comparability: In order to support comparative assertions, this EPD meets all comparability requirements stated in ISO 14025:2006. However, 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 or programs, as the EPD results may not be entirely comparable. Any EPD comparison must be carried out at the construction works level per ISO 21930:2017 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.

| | | |
|---|---|--|
| DECLARATION NUMBER | EPD 420 | |
| PROGRAM OPERATOR | ASTM International – 100 Barr Harbor Drive, West Conshohocken, PA USA www.astm.org | |
| DECLARATION HOLDER | USG Corporation - 550 W. Adams St., Chicago, IL USA | |
| DECLARED PRODUCT | USG Levelrock® Wood Primer (Concentrate) USG Levelrock® Wood Primer (Powdered) | |
| REFERENCE PCR | NSF: PCR for Resinous Floor Coatings; valid through December 17, 2023 | |
| PRODUCT CATEGORY | Resinous floor coating; subcategory thin-mil | |
| DATE OF ISSUE | 2/6/23 | |
| PERIOD OF VALIDITY | 5 Years | |
| CONTENTS OF THE DECLARATION | This EPD is complete and contains the following: <ul style="list-style-type: none"> • Product System Documentation • Life Cycle Calculation Rules • Life Cycle Assessment Results • Further Information • References | |
| This declaration was independently verified in accordance with ISO 14025 and ISO 21930:2017 <input type="checkbox"/> INTERNAL <input checked="" type="checkbox"/> EXTERNAL | | Tim Brooke, ASTM International |
| This life cycle assessment was independently verified in accordance with ISO 14044 and the reference PCR by: | | Thomas P. Gloria, Industrial Ecology Consultants |



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1. Product System Documentation

1.1 Product Description and Product Identification

USG Levelrock® Brand Wood Primers (Concentrate and Powdered) are designed and manufactured by USG to improve adhesion to wood subfloors including OSB, plywood and corrugated galvanized steel deck substrates. The surfaces of these floors must be sound and non-friable. This product is available in 5-gallon pails from USG's Gypsum, OH facility and in 53-gallon drums and 275-gallon totes from USG's Walworth, WI facility. It is also available in 6-pound bags from USG's Southard, OK and Gypsum, OH facilities. Note that coatings typically assessed using the PCR for resinous floor coatings include additional coating layers (i.e. basecoat and topcoat) beyond those manufactured by USG.

1.2 Designated Application

USG Levelrock® Brand Wood Primers (Concentrate and Powdered) is intended to be a sealer for USG Durock™ Multi-Use Self-Leveling Underlayments to enhance the bond between the underlayment and the floor-covering adhesive.

1.3 Product Technical Data

These low odor primers are sprayed, broomed on or paint roller-applied to the subfloor by USG Levelrock applicators prior to installing USG Levelrock® engineered cementitious underlayments in all types of commercial, institutional and residential flooring applications. Available in concentrate and powdered form (which require diluting with water), the primers are fast drying and resist mold. An application rate of 400 sq. ft. per gallon of as-delivered product was used for the concentrate form and an application rate of 333 sq. ft. per pound of product was used for the powdered form.

1.4 Placing on the Market/Application Rules

USG Levelrock® Brand Wood Primer must be installed in accordance with all applicable USG installation guidelines. Further detail may be found on the USG.com website.

1.5 Delivery Status

USG Levelrock® Brand Wood Primer is available in 5-gallon pails, 53-gallon drums, 275-gallon totes and 6-pound bags.

1.6 Product Composition

Table 2: Product formula

| Ingredient | LEVELROCK® BRAND WOOD PRIMER |
|--|------------------------------|
| 5-Chloro-2-methyl-2H-isothiazolo 1-3-one | < 0.005% |

1.7 Product Manufacture

USG Levelrock® Brand Wood Primer (concentrate) is produced and packaged on commercial coating line. The preparation of this product consists of blending the various liquid ingredients using a large volume high shear mixer. Packaging is conducted on a dedicated packaging line adjacent to each blending operation. Rigorous inspections insure that the finished product meets quality requirements. Any waste generated during product manufacturing is shipped to an appropriate landfill using a distance of 32 km (20 miles) by truck. All raw materials utilized a shipping distance of 1207

km (750 miles).

1.8 Environment and Health During Manufacturing

USG and CGC have led the building sector’s effort in developing and supplying sustainable construction materials. Today, sustainability is integrated into the design and manufacture of USG’s wall, ceiling, and flooring products. As both a producer and a buyer of raw materials, we have a responsibility to extensively review and select each material we use. Each decision we make is based on careful consideration of environmental and safety effects over time. Raw materials used in our products are carefully selected and go through a screening procedure. Incoming raw materials are tested for contaminants by an internal lab and third-party labs for consideration of use and worker, environmental, and end-user exposure. This due diligence helps to ensure our products are safe to handle in our manufacturing plants and on job sites while having minimal impact on occupant health and indoor and outdoor environments.

1.9 Packaging

USG Levelrock® Brand Wood Primer is available in 5-gallon pails, 53-gallon drums, 275-gallon totes and 6 pound bags.

Table 3: A5 Product Packaging Waste per 1 Square Meter of Applied Coating

| <u>Module</u> | <u>Packaging</u> | <u>Scenario</u> | <u>Mass of Packaging Waste</u> | <u>GWP Biogenic Content</u> |
|--------------------------------|------------------|----------------------------|--------------------------------|-----------------------------|
| A5 Installation of the product | 5-Gal. Jug | Standard Application Rate | 2.09E-03 kg | 0.0 kg |
| | 53-Gal. Drum | Standard Application Rate | 1.01E-02 kg | 0.0 kg |
| | 275-Gal. Tote | Standard Application Rates | 6.11E-03 kg | 0.0 kg |
| | 6-Lb. Bag | Standard Application Rates | 1.54E-04 kg | 0.0 kg |

1.10 Conditions of Use

USG Levelrock® Brand Wood Primer must be installed in accordance with all applicable USG installation guidelines. Approved installation procedures are provided in the various submittal sheets specific to each product and must be followed. Installation of these products is accomplished by manual labor using mostly hand tools. No material or energy inputs are required on the jobsite.

1.11 Distribution

As noted in the PCR, the default distances for the transport of finished products from manufacturing to the distribution center is taken to be 402 km (250 miles) and from the distribution center to the point of sale is taken to be 804 km (500 miles) for a total of 1206 km (749) miles) by truck. Final transportation distance from the point of sale to the application site is taken to be 8 km (5 miles) by auto.

1.12 Product Installation

USG Levelrock® Brand Wood Primer must be installed in accordance with all applicable USG installation guidelines. Approved installation procedures are provided in the various submittal sheets specific to each product. Installation of these products is accomplished by manual labor using mostly hand tools. No material or energy inputs are required on the jobsite. A 2% installation waste factor was utilized in this study as dictated in the PCR. The 5-gallon pails and 275-gallon totes are assumed to go to landfill while the steel 53-gallon drums are assumed to be recycled in this study. The 6-pound paper bags



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are assumed to also go to landfill.



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1.13 Use Stage

USG Levelrock® Brand Wood Primer is intended to improve the adhesion to wood subfloors and is not the final wearable surface and is always intended to be covered by a tile or stone application. As such, this product becomes a permanent part of the floor structure and is not intended to be replaced during the life of the building. Accordingly, there are no use (B1), maintenance(B2), repair(B3), replacement (B4), refurbishment (B5) or operation energy (B6), or water (B7) inputs during the life of this product.

1.14 Environment and Health During Use Stage

This product has been tested per CDPH 01350 Standard Method V1.2 and meets the requirements for classroom, office, and residence use. Total VOC concentration at 14 days is less than or equal to 0.5 mg/m³. The detailed test report can be found at <https://clearchem.berkeleyanalytical.com>.

This product is not expected to produce any unusual hazards during normal use. Proper personal protective gear should be worn by the installer for protection.

1.16 Re-Use Phase

USG Levelrock® Brand Wood Primer cannot be reused at the end of a building's life.

1.17 End-of-Life Disposal

All waste generated at end-of-life is assumed to be disposed of in an appropriate landfill. The transport distance at end of life is assumed to be 32 km (20 miles).

“Significant data limitations currently exist within the LCI data used to generate waste metrics for Life Cycle Assessments and Environmental Product Declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates and are for informational purposes only. As such, no decisions regarding actual cradle-grave waste performance between products should be derived from these reported values.”

2. LCA Calculation Rules

2.1 Functional Unit

For this study, both the declared unit and functional unit are defined to be the quantity of coating required to cover 1 square meter of floor as presented in the submittal sheet for each product.

Table 3: Functional unit (1 square meter of applied coating)

| Product | 1st Application | | 2nd Application | | Product Weight (lbs./gal) | Combined Applications | |
|---|---|--|---|--|------------------------------|--|---|
| | Recommended Dilution Rate (gal H ₂ O/gal product) | Recommended Coverage (sf/gal of product) | Recommended Dilution Rate (gal H ₂ O/gal product) | Recommended Coverage (sf/gal of product) | | Application Rate (lbs. of undiluted product/sf) | Application Rate (lbs. of undiluted product/m ²) |
| USG Levelrock Wood Floor Primer (concentrate) | 1 | 800 | 0 | 0 | 8.7 | 0.0109 | 0.1170 |
| USG Levelrock Wood Floor Primer (6 Lb. Bag) | 1 | 333 | 0 | 0 | 1.2 | 0.0030 | 0.0323 |



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2.2 Reference Service Life

USG Levelrock® Brand Wood Primers (Concentrate and Powdered) are designed and manufactured by USG to improve adhesion to wood subfloors including OSB, plywood and corrugated galvanized steel deck substrates. USG Levelrock® Brand Wood Primers is not the final wear surface. As such it becomes a permanent part of the floor structure and is not intended to be replaced during the life of the building. A default RSL of 60 years is assumed for the product. An assumed Estimated Service Life (ESL) of 60 years shall be used for building life.

2.3 System Boundary

This EPD represents a “cradle-to-grave” LCA analysis for USG Levelrock® Brand Wood Primer. It covers all the production steps from raw material extraction (i.e., the cradle) to end of life disposal (grave).

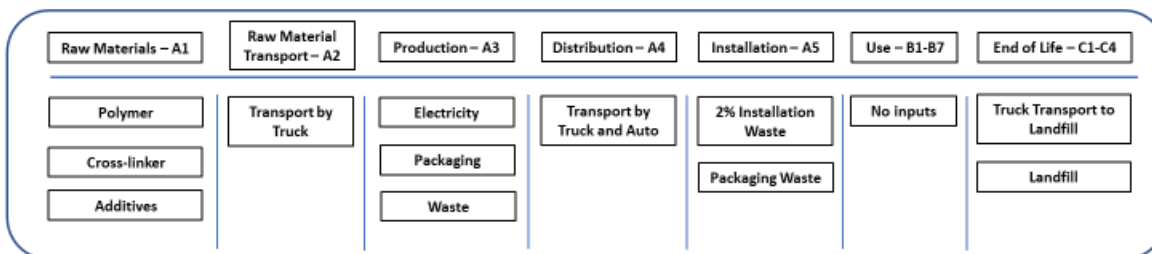


Figure 1: Specific processes covered by this EPD by life cycle stage

| Product | Recommended Coverage (sf/gal of product) | Product Weight (lbs./gal) | Application Rate | Application Rate |
|---|--|---------------------------|--------------------------------|--------------------------------|
| | | | (lbs. of undiluted product/sf) | (lbs. of undiluted product/m2) |
| USG Levelrock Wood Floor Primer (solution) | 400 | 8.70 | 0.0218 | 0.2340 |
| USG Levelrock Wood Floor Primer (6 Lb. Bag) | 400 | 1.2 | 0.0030 | 0.0323 |

2.4 Estimates and Assumptions

The results are limited by the choice of proxy processes rather than actual supplier generated primary data. This would include the following processes. A GaBi supplied dataset for a specific polymer was used as a proxy for a vendor-supplied polymer. In addition, the data is limited in that the primary data was collected during 2021 and changes in operations may increase/decrease impacts in the future. Other data limitations include the use of secondary data sets instead of primary data for upstream and downstream processes, local impacts vs. global impacts, possible impacts vs. actual impacts, inherent uncertainty in the data sets, accuracy, and precision of impact assessment methodology, etc. Both human activity and capital equipment were excluded from the system boundary.

2.5 Cut-off Criteria

The applicable cut-off rules are described in ISO 21930:2017 clause 7.1.8. The cut-off criteria shall be 1% of renewable primary resource (energy), 1% nonrenewable primary resource (energy) usage, 1% of the total mass input of that unit process and 1% of environmental impacts. The total of neglected input flows per module shall be a maximum of 5% of energy usage, mass, and environmental impacts. For materials characterized as hazardous by the Globally Harmonized System (GHS), cut-off rules do not apply and such substances shall be included in the inventory.



2.6 Background Data

All background was sourced from critically reviewed GaBi databases.

2.7 Data Requirements and Data Sources

The LCA model was created using the GaBi software from Sphera. Specific comments related to data quality requirements cited in ISO 14025 Section 4.2.3.6.2 include the following.

Temporal: In the case of production, the LCI data was collected for the 2021 production year.

Geographical: Where possible, all processes were chosen as being representative of US manufacturing processes.

Technical: The data selected for this study is specific to the technology used in the preparation of the various raw materials.

Precision: The raw material usage amounts were derived from plant quality data and on plant product formulas.

Completeness: Virtually all the significant raw material flows (> 99.5%) have been modeled.

Representative: Where possible all the data sets were selected to be representative of US-based production, are less than 10 years in age and are representative of the technology being employed.

Consistency: All the manufacturing processes were modeled in a consistent manner throughout this study in accordance with the goal and scope definitions.

Reproducibility: The information contained in this study, including raw material, energy and transportation distance inputs, have been fully documented in the LCA report.

Sources of Data: The sources for the processes used in this study have been fully provided in the LCA report and are representative of the material and energy sources used in actual production.

Uncertainty: The relative uncertainty associated with this study has been minimized. No significant assumptions have been made.

2.8 Period Under Review

All raw material and energy inputs are for the 2021 calendar year.

2.9 Allocation

No allocation was required in this study. The LCI data was collected for the 2021 production year.

2.10 Comparability

Per ISO 21930:2017, comparability of product systems using this reference PCR shall only be done in the context of construction works and shall meet all requirements listed in Section 5.5.

Additionally, comparative assertions (i.e., superiority claims vs. a competing product) regarding the specific product system shall not be made in the EPD and any comparison must also consider both the limitations of LCA as only potential impacts are being reported by the EPD (damage is not being assessed). All EPDs must contain the statement on the limitations of the study described in Section 13 of this reference PCR.

3. Life Cycle Assessment Results

Life Cycle Assessment Results

| Product stage | | | | Construction process stage | | | | Use stage | | | | End of life stage | | | |
|---------------------|-----------|---------------|-----------|-----------------------------------|-----|-------------|--------|-------------|---------------|------------------------|-----------------------|----------------------------|-----------|------------------|----------|
| Raw Material Supply | Transport | Manufacturing | Transport | Construction-Installation Process | Use | Maintenance | Repair | Replacement | Refurbishment | Operational Energy Use | Operational water Use | De-construction Demolition | Transport | Waste processing | Disposal |
| A1 | A2 | A3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 |
| X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |

Figure 2: System Boundary

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The following results cover the application of Levelrock® Brand Wood Primer applied at the recommended application rate (see section 1.4 above). These results are specifically for a 5-gallon pail container.

| Environmental LCA Results for USG Levelrock® Brand Wood Primer | | | | | | | | | | |
|---|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|
| 1 Square Meter of Applied Coating at the Standard Application Rate - 5-Gallon Pail - Gypsum, OH | | | | | | | | | | |
| Impact Assessment Method: TRACI 2.1 | Units | Stage | | | | | | | | |
| | | A1-A3 | A4 | A5 | B1-B7 | C1 | C2 | C3 | C4 | Total A1-C4 |
| Environmental Impact Category | Units | Impact | Impact | Impact | Impact | Impact | Impact | Impact | Impact | Impact |
| Global Warming | kg CO2 eq. | 4.84E-02 | 1.08E-02 | 1.40E-03 | 0.00E+00 | 0.00E+00 | 1.28E-04 | 0.00E+00 | 2.43E-03 | 6.31E-02 |
| Ozone Depletion Potential (ODP) | kg CFC 11 eq. | 3.46E-16 | 2.04E-17 | 1.00E-17 | 0.00E+00 | 0.00E+00 | 2.43E-19 | 0.00E+00 | 3.81E-17 | 4.15E-16 |
| Acidification Potential | kg SO2 eq. | 1.32E-04 | 1.10E-05 | 4.65E-06 | 0.00E+00 | 0.00E+00 | 3.88E-07 | 0.00E+00 | 5.32E-06 | 1.53E-04 |
| Eutrophication Potential (EP) | kg N eq. | 8.66E-06 | 2.63E-06 | 9.95E-07 | 0.00E+00 | 0.00E+00 | 3.98E-08 | 0.00E+00 | 2.55E-07 | 1.26E-05 |
| Photochemical Ozone Creation Potential (POCP) | kg O3 eq. | 2.43E-03 | 2.63E-04 | 5.92E-05 | 0.00E+00 | 0.00E+00 | 8.86E-06 | 0.00E+00 | 1.03E-04 | 2.87E-03 |
| Abiotic Depletion Potential (ADP) - fossil fuels | MJ surplus energy | 2.10E-01 | 1.94E-02 | 4.89E-03 | 0.00E+00 | 0.00E+00 | 2.40E-04 | 0.00E+00 | 1.30E-03 | 2.35E-01 |

| Resource and Waste Flows for USG Levelrock® Brand Wood Primer | | | | | | | | | | |
|---|------------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|
| 1 Square Meter of Applied Coating at the Standard Application Rate - 5-Gallon Pail - Gypsum, OH | | | | | | | | | | |
| Use of Primary Resources | Units | Stage | | | | | | | | |
| | | A1-A3 | A4 | A5 | B1-B7 | C1 | C2 | C3 | C4 | Total A1-C4 |
| Renewable primary resources used as an energy carrier (RPRE) | MJ, NCV | 2.63E-02 | 8.97E-03 | 9.98E-04 | 0.00E+00 | 0.00E+00 | 7.04E-05 | 0.00E+00 | 1.50E-03 | 3.78E-02 |
| Renewable primary resources with energy content used as material (RPRM) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Non-renewable primary resources used as an energy carrier (NRPRE) | MJ, NCV | 1.56E+00 | 1.46E-01 | 3.43E-02 | 0.00E+00 | 0.00E+00 | 1.81E-03 | 0.00E+00 | 1.04E-02 | 1.76E+00 |
| Non-renewable primary resources with energy content used as material (NRPRM) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Secondary material, secondary fuel and recovered energy | | | | | | | | | | |
| Secondary Material (SM) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Renewable Secondary Fuel (RSF) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Non-renewable Secondary Fuel (NRSF) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Renewable Energy (RE) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Consumption of Fresh Water | m3 | 3.54E-04 | 4.54E-05 | 7.29E-06 | 0.00E+00 | 0.00E+00 | 2.53E-07 | 0.00E+00 | 2.56E-06 | 4.09E-04 |
| Additional inventory parameters for transparency | | | | | | | | | | |
| Removals and emissions associated with biogenic carbon content of the bio-based product | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Emission from calcination and uptake from carbonation | kg CO2-eq. | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Removals and emissions associated with biogenic carbon content of the bio-based packaging | kg CO2-eq. | 0.00E+00 | 2.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Emissions from land use change | kg CO2-eq. | 5.78E-06 | 5.88E-06 | 2.81E-07 | 0.00E+00 | 0.00E+00 | 9.01E-08 | 0.00E+00 | 1.09E-06 | 1.31E-05 |
| Emissions from combustion of waste from renewable sources used in production processes | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Emissions from combustion of waste from non-renewable sources used in production processes | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Indicators describing waste | | | | | | | | | | |
| Hazardous waste disposed | kg | 7.86E-11 | 9.35E-13 | 1.77E-12 | 0.00E+00 | 0.00E+00 | 7.52E-15 | 0.00E+00 | 5.57E-13 | 8.19E-11 |
| Non-hazardous waste disposed | kg | 1.34E-03 | 3.46E-05 | 1.96E-03 | 0.00E+00 | 0.00E+00 | 1.56E-07 | 0.00E+00 | 5.27E-02 | 5.60E-02 |
| High-level radioactive waste | kg | 1.78E-05 | 4.54E-07 | 3.90E-07 | 0.00E+00 | 0.00E+00 | 5.02E-09 | 0.00E+00 | 1.19E-07 | 1.88E-05 |
| Intermediate and low-level waste | kg | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Assignments of output flows at the end-of-life | | | | | | | | | | |
| Components for re-use (CRU) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Materials for recycling (MR) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Materials for energy recovery (MER) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Recovered energy exported (EE) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |



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The following results cover the Levelrock® Brand Wood Primer in a 5-gallon pail container.

| Environmental LCA Results per Gallon for a 5-Gallon Pail of USG Levelrock® Brand Wood Primer - Gypsum, OH | | | | | | | | | | |
|---|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|
| | | Stage | | | | | | | | |
| Impact Assessment Method: TRACI 2.1 | | A1-A3 | A4 | A5 | B1-B7 | C1 | C2 | C3 | C4 | Total A1-C4 |
| Environmental Impact Category | Units | Impact | Impact | Impact | Impact | Impact | Impact | Impact | Impact | Impact |
| Global Warming | kg CO2 eq. | 3.60E+00 | 8.00E-01 | 1.04E-01 | 0.00E+00 | 0.00E+00 | 9.53E-03 | 0.00E+00 | 1.80E-01 | 4.69E+00 |
| Ozone Depletion Potential (ODP) | kg CFC 11 eq. | 2.57E-14 | 1.52E-15 | 7.44E-16 | 0.00E+00 | 0.00E+00 | 1.81E-17 | 0.00E+00 | 2.83E-15 | 3.08E-14 |
| Acidification Potential | kg SO2 eq. | 9.79E-03 | 8.18E-04 | 3.46E-04 | 0.00E+00 | 0.00E+00 | 2.89E-05 | 0.00E+00 | 3.96E-04 | 1.14E-02 |
| Eutrophication Potential (EP) | kg N eq. | 6.44E-04 | 1.96E-04 | 7.41E-05 | 0.00E+00 | 0.00E+00 | 2.96E-06 | 0.00E+00 | 1.89E-05 | 9.36E-04 |
| Photochemical Ozone Creation Potential (POCP) | kg O3 eq. | 1.81E-01 | 1.95E-02 | 4.40E-03 | 0.00E+00 | 0.00E+00 | 6.59E-04 | 0.00E+00 | 7.69E-03 | 2.13E-01 |
| Abiotic Depletion Potential (ADP) - fossil fuels | MJ surplus energy | 1.56E+01 | 1.44E+00 | 3.63E-01 | 0.00E+00 | 0.00E+00 | 1.78E-02 | 0.00E+00 | 9.63E-02 | 1.75E+01 |

| Resource and Waste Flows per Gallon for USG Levelrock® Brand Wood Primer - 5-Gallon Pail - Gypsum, OH | | | | | | | | | | |
|---|------------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|
| | Units | Stage | | | | | | | | |
| Use of Primary Resources | | A1-A3 | A4 | A5 | B1-B7 | C1 | C2 | C3 | C4 | Total A1-C4 |
| Renewable primary resources used as an energy carrier (RPRE) | MJ, NCV | 1.95E+00 | 6.67E-01 | 7.42E-02 | 0.00E+00 | 0.00E+00 | 5.23E-03 | 0.00E+00 | 1.12E-01 | 2.81E+00 |
| Renewable primary resources with energy content used as material (RPRM) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Non-renewable primary resources used as an energy carrier (NRPRE) | MJ, NCV | 1.16E+02 | 1.09E+01 | 2.55E+00 | 0.00E+00 | 0.00E+00 | 1.35E-01 | 0.00E+00 | 7.73E-01 | 1.31E+02 |
| Non-renewable primary resources with energy content used as material (NRPRM) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Secondary material, secondary fuel and recovered energy | | | | | | | | | | |
| Secondary Material (SM) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Renewable Secondary Fuel (RSF) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Non-renewable Secondary Fuel (NRSF) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Renewable Energy (RE) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Consumption of Fresh Water | m3 | 2.63E-02 | 3.37E-03 | 5.42E-04 | 0.00E+00 | 0.00E+00 | 1.88E-05 | 0.00E+00 | 1.90E-04 | 3.04E-02 |
| Additional inventory parameters for transparency | | | | | | | | | | |
| Removals and emissions associated with biogenic carbon content of the bio-based product | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Emission from calcination and uptake from carbonation | kg CO2-eq. | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Removals and emissions associated with biogenic carbon content of the bio-based packaging | kg CO2-eq. | 0.00E+00 | 2.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Emissions from land use change | kg CO2-eq. | 4.30E-04 | 4.37E-04 | 2.09E-05 | 0.00E+00 | 0.00E+00 | 6.70E-06 | 0.00E+00 | 8.10E-05 | 9.75E-04 |
| Emissions from combustion of waste from renewable sources used in production processes | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Emissions from combustion of waste from non-renewable sources used in production processes | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Indicators describing waste | | | | | | | | | | |
| Hazardous waste disposed | kg | 5.84E-09 | 6.96E-11 | 1.32E-10 | 0.00E+00 | 0.00E+00 | 5.59E-13 | 0.00E+00 | 4.14E-11 | 6.09E-09 |
| Non-hazardous waste disposed | kg | 9.94E-02 | 2.57E-03 | 1.46E-01 | 0.00E+00 | 0.00E+00 | 1.16E-05 | 0.00E+00 | 3.92E+00 | 4.16E+00 |
| High-level radioactive waste | kg | 1.32E-03 | 3.37E-05 | 2.90E-05 | 0.00E+00 | 0.00E+00 | 3.73E-07 | 0.00E+00 | 8.81E-06 | 1.40E-03 |
| Intermediate and low-level waste | kg | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Assignments of output flows at the end-of-life | | | | | | | | | | |
| Components for re-use (CRU) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Materials for recycling (MR) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Materials for energy recovery (MER) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Recovered energy exported (EE) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |



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Environmental Product Declaration

USG Levelrock® Brand Wood Primer

Gypsum, OH and Walworth, WI



The following results cover the application of Levelrock® Brand Wood Primer applied at the recommended application rate (see section 1.4 above). These results are specifically for a 53-gallon drum container.

| Environmental LCA Results for USG Levelrock® Brand Wood Primer | | | | | | | | | | |
|--|-------------------|----------|----------|-----------|----------|----------|----------|----------|----------|-------------|
| 1 Square Meter of Applied Coating at the Standard Application Rate - 53-Gallon Drum - Walworth, WI | | | | | | | | | | |
| Impact Assessment Method: TRACI 2.1 | Units | Stage | | | | | | | | |
| | | A1-A3 | A4 | A5 | B1-B7 | C1 | C2 | C3 | C4 | Total A1-C4 |
| Environmental Impact Category | | Impact | Impact | Impact | Impact | Impact | Impact | Impact | Impact | Impact |
| Global Warming | kg CO2 eq. | 4.85E-02 | 1.15E-02 | -6.74E-03 | 0.00E+00 | 0.00E+00 | 1.28E-04 | 0.00E+00 | 2.43E-03 | 5.58E-02 |
| Ozone Depletion Potential (ODP) | kg CFC 11 eq. | 2.94E-16 | 2.19E-17 | -1.76E-17 | 0.00E+00 | 0.00E+00 | 2.43E-19 | 0.00E+00 | 3.81E-17 | 3.36E-16 |
| Acidification Potential | kg SO2 eq. | 9.80E-05 | 1.18E-05 | -1.08E-05 | 0.00E+00 | 0.00E+00 | 3.88E-07 | 0.00E+00 | 5.32E-06 | 1.05E-04 |
| Eutrophication Potential (EP) | kg N eq. | 8.77E-06 | 2.82E-06 | -1.34E-07 | 0.00E+00 | 0.00E+00 | 3.98E-08 | 0.00E+00 | 2.55E-07 | 1.17E-05 |
| Photochemical Ozone Creation Potential (POCP) | kg O3 eq. | 2.39E-03 | 2.82E-04 | -1.14E-04 | 0.00E+00 | 0.00E+00 | 8.86E-06 | 0.00E+00 | 1.03E-04 | 2.67E-03 |
| Abiotic Depletion Potential (ADP) - fossil fuels | MJ surplus energy | 2.01E-01 | 2.08E-02 | 4.88E-03 | 0.00E+00 | 0.00E+00 | 2.40E-04 | 0.00E+00 | 1.30E-03 | 2.28E-01 |

| Resource and Waste Flows for USG Levelrock® Brand Wood Primer | | | | | | | | | | |
|--|------------|----------|----------|-----------|----------|----------|----------|----------|----------|-------------|
| 1 Square Meter of Applied Coating at the Standard Application Rate - 53-Gallon Drum - Walworth, WI | | | | | | | | | | |
| Use of Primary Resources | Units | Stage | | | | | | | | |
| | | A1-A3 | A4 | A5 | B1-B7 | C1 | C2 | C3 | C4 | Total A1-C4 |
| Renewable primary resources used as an energy carrier (RPRE) | MJ, NCV | 2.92E-02 | 9.63E-03 | 5.92E-03 | 0.00E+00 | 0.00E+00 | 7.04E-05 | 0.00E+00 | 1.50E-03 | 4.64E-02 |
| Renewable primary resources with energy content used as material (RPRM) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Non-renewable primary resources used as an energy carrier (NRPRE) | MJ, NCV | 1.49E+00 | 1.57E-01 | -4.61E-02 | 0.00E+00 | 0.00E+00 | 1.81E-03 | 0.00E+00 | 1.04E-02 | 1.61E+00 |
| Non-renewable primary resources with energy content used as material (NRPRM) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Secondary material, secondary fuel and recovered energy | | | | | | | | | | |
| Secondary Material (SM) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Renewable Secondary Fuel (RSF) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Non-renewable Secondary Fuel (NRSF) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Renewable Energy (RE) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Consumption of Fresh Water | m3 | 3.62E-04 | 4.87E-05 | -2.82E-05 | 0.00E+00 | 0.00E+00 | 2.53E-07 | 0.00E+00 | 2.56E-06 | 3.85E-04 |
| Additional inventory parameters for transparency | | | | | | | | | | |
| Removals and emissions associated with biogenic carbon content of the bio-based product | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Emission from calcination and uptake from carbonation | kg CO2-eq. | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Removals and emissions associated with biogenic carbon content of the bio-based packaging | kg CO2-eq. | 0.00E+00 | 2.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Emissions from land use change | kg CO2-eq. | 5.68E-06 | 6.30E-06 | 8.06E-08 | 0.00E+00 | 0.00E+00 | 9.01E-08 | 0.00E+00 | 1.09E-06 | 1.32E-05 |
| Emissions from combustion of waste from renewable sources used in production processes | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Emissions from combustion of waste from non-renewable sources used in production processes | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Indicators describing waste | | | | | | | | | | |
| Hazardous waste disposed | kg | 7.57E-11 | 1.00E-12 | 9.71E-13 | 0.00E+00 | 0.00E+00 | 7.52E-15 | 0.00E+00 | 5.57E-13 | 7.82E-11 |
| Non-hazardous waste disposed | kg | 1.32E-03 | 3.71E-05 | 2.24E-03 | 0.00E+00 | 0.00E+00 | 1.56E-07 | 0.00E+00 | 5.27E-02 | 5.63E-02 |
| High-level radioactive waste | kg | 9.54E-06 | 4.87E-07 | 2.21E-07 | 0.00E+00 | 0.00E+00 | 5.02E-09 | 0.00E+00 | 1.19E-07 | 1.04E-05 |
| Intermediate and low-level waste | kg | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Assignments of output flows at the end-of-life | | | | | | | | | | |
| Components for re-use (CRU) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Materials for recycling (MR) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Materials for energy recovery (MER) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Recovered energy exported (EE) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |



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Environmental Product Declaration

USG Levelrock® Brand Wood Primer

Gypsum, OH and Walworth, WI



The following results cover the Levelrock® Brand Wood Primer in a 53-gallon drum container.

| Environmental LCA Results per Gallon for a 53-Gallon Drum of USG Levelrock® Brand Wood Primer - Walworth, WI | | | | | | | | | | |
|--|-------------------|----------|----------|-----------|----------|----------|----------|----------|----------|-------------|
| | | Stage | | | | | | | | |
| Impact Assessment Method: TRACI 2.1 | Units | A1-A3 | A4 | A5 | B1-B7 | C1 | C2 | C3 | C4 | Total A1-C4 |
| Environmental Impact Category | Units | Impact | Impact | Impact | Impact | Impact | Impact | Impact | Impact | Impact |
| Global Warming | kg CO2 eq. | 3.61E+00 | 8.59E-01 | -5.02E-01 | 0.00E+00 | 0.00E+00 | 9.53E-03 | 0.00E+00 | 1.80E-01 | 4.15E+00 |
| Ozone Depletion Potential (ODP) | kg CFC 11 eq. | 2.18E-14 | 1.63E-15 | -1.31E-15 | 0.00E+00 | 0.00E+00 | 1.81E-17 | 0.00E+00 | 2.83E-15 | 2.50E-14 |
| Acidification Potential | kg SO2 eq. | 7.29E-03 | 8.77E-04 | -8.03E-04 | 0.00E+00 | 0.00E+00 | 2.89E-05 | 0.00E+00 | 3.96E-04 | 7.79E-03 |
| Eutrophication Potential (EP) | kg N eq. | 6.52E-04 | 2.10E-04 | -9.92E-06 | 0.00E+00 | 0.00E+00 | 2.96E-06 | 0.00E+00 | 1.89E-05 | 8.74E-04 |
| Photochemical Ozone Creation Potential (POCP) | kg O3 eq. | 1.78E-01 | 2.09E-02 | -8.48E-03 | 0.00E+00 | 0.00E+00 | 6.59E-04 | 0.00E+00 | 7.69E-03 | 1.99E-01 |
| Abiotic Depletion Potential (ADP) - fossil fuels | MJ surplus energy | 1.49E+01 | 1.55E+00 | 3.63E-01 | 0.00E+00 | 0.00E+00 | 1.78E-02 | 0.00E+00 | 9.63E-02 | 1.70E+01 |

| Resource and Waste Flows per Gallon for USG Levelrock® Brand Wood Primer - 53-Gallon Drum - Walworth, WI | | | | | | | | | | | |
|--|------------|----------|----------|-----------|----------|----------|----------|----------|----------|----------|-------------|
| | | Units | Stage | | | | | | | | |
| Use of Primary Resources | | | A1-A3 | A4 | A5 | B1-B7 | C1 | C2 | C3 | C4 | Total A1-C4 |
| Renewable primary resources used as an energy carrier (RPRE) | MJ, NCV | 2.17E+00 | 7.16E-01 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 5.23E-03 | 0.00E+00 | 1.12E-01 | 3.45E+00 | |
| Renewable primary resources with energy content used as material (RPRM) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Non-renewable primary resources used as an energy carrier (NRPRE) | MJ, NCV | 1.11E+02 | 1.17E+01 | -3.43E+00 | 0.00E+00 | 0.00E+00 | 1.35E-01 | 0.00E+00 | 7.73E-01 | 1.20E+02 | |
| Non-renewable primary resources with energy content used as material (NRPRM) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Secondary material, secondary fuel and recovered energy | | | | | | | | | | | |
| Secondary Material (SM) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Renewable Secondary Fuel (RSF) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Non-renewable Secondary Fuel (NRSF) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Renewable Energy (RE) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Consumption of Fresh Water | m3 | 2.69E-02 | 3.62E-03 | -2.10E-03 | 0.00E+00 | 0.00E+00 | 1.88E-05 | 0.00E+00 | 1.90E-04 | 2.86E-02 | |
| Additional inventory parameters for transparency | | | | | | | | | | | |
| Removals and emissions associated with biogenic carbon content of the bio-based product | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Emission from calcination and uptake from carbonation | kg CO2-eq. | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Removals and emissions associated with biogenic carbon content of the bio-based packaging | kg CO2-eq. | 0.00E+00 | 2.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Emissions from land use change | kg CO2-eq. | 4.22E-04 | 4.69E-04 | 6.00E-06 | 0.00E+00 | 0.00E+00 | 6.70E-06 | 0.00E+00 | 8.10E-05 | 9.85E-04 | |
| Emissions from combustion of waste from renewable sources used in production processes | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Emissions from combustion of waste from non-renewable sources used in production processes | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Indicators describing waste | | | | | | | | | | | |
| Hazardous waste disposed | kg | 5.63E-09 | 7.46E-11 | 7.22E-11 | 0.00E+00 | 0.00E+00 | 5.59E-13 | 0.00E+00 | 4.14E-11 | 5.82E-09 | |
| Non-hazardous waste disposed | kg | 9.79E-02 | 2.76E-03 | 1.66E-01 | 0.00E+00 | 0.00E+00 | 1.16E-05 | 0.00E+00 | 3.92E+00 | 4.18E+00 | |
| High-level radioactive waste | kg | 7.09E-04 | 3.62E-05 | 1.64E-05 | 0.00E+00 | 0.00E+00 | 3.73E-07 | 0.00E+00 | 8.81E-06 | 7.71E-04 | |
| Intermediate and low-level waste | kg | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| Assignments of output flows at the end-of-life | | | | | | | | | | | |
| Components for re-use (CRU) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Materials for recycling (MR) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Materials for energy recovery (MER) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Recovered energy exported (EE) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |



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Environmental Product Declaration

USG Levelrock® Brand Wood Primer

Gypsum, OH and Walworth, WI



The following results cover the application of Levelrock® Brand Wood Primer applied at the recommended application rate (see section 1.4 above). These results are specifically for a 275-gallon tote container.

| Environmental LCA Results for USG Levelrock® Brand Wood Primer | | | | | | | | | | |
|---|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|
| 1 Square Meter of Applied Coating at the Standard Application Rate - 275-Gallon Tote - Walworth, WI | | | | | | | | | | |
| Impact Assessment Method: TRACI 2.1 | Units | Stage | | | | | | | | |
| | | A1-A3 | A4 | A5 | B1-B7 | C1 | C2 | C3 | C4 | Total A1-C4 |
| Environmental Impact Category | Units | Impact | Impact | Impact | Impact | Impact | Impact | Impact | Impact | Impact |
| Global Warming | kg CO2 eq. | 4.74E-02 | 1.12E-02 | 1.76E-03 | 0.00E+00 | 0.00E+00 | 1.28E-04 | 0.00E+00 | 2.43E-03 | 6.28E-02 |
| Ozone Depletion Potential (ODP) | kg CFC 11 eq. | 2.94E-16 | 2.11E-17 | 1.38E-17 | 0.00E+00 | 0.00E+00 | 2.43E-19 | 0.00E+00 | 3.81E-17 | 3.67E-16 |
| Acidification Potential | kg SO2 eq. | 9.38E-05 | 1.14E-05 | 4.68E-06 | 0.00E+00 | 0.00E+00 | 3.88E-07 | 0.00E+00 | 5.32E-06 | 1.16E-04 |
| Eutrophication Potential (EP) | kg N eq. | 8.55E-06 | 2.73E-06 | 1.21E-06 | 0.00E+00 | 0.00E+00 | 3.98E-08 | 0.00E+00 | 2.55E-07 | 1.28E-05 |
| Photochemical Ozone Creation Potential (POCP) | kg O3 eq. | 2.33E-03 | 2.72E-04 | 6.84E-05 | 0.00E+00 | 0.00E+00 | 8.86E-06 | 0.00E+00 | 1.03E-04 | 2.78E-03 |
| Abiotic Depletion Potential (ADP) - fossil fuels | MJ surplus energy | 2.01E-01 | 2.01E-02 | 4.99E-03 | 0.00E+00 | 0.00E+00 | 2.40E-04 | 0.00E+00 | 1.30E-03 | 2.28E-01 |

| Resource and Waste Flows for USG Levelrock® Brand Wood Primer | | | | | | | | | | |
|---|------------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|
| 1 Square Meter of Applied Coating at the Standard Application Rate - 275-Gallon Tote - Walworth, WI | | | | | | | | | | |
| Use of Primary Resources | Units | Stage | | | | | | | | |
| | | A1-A3 | A4 | A5 | B1-B7 | C1 | C2 | C3 | C4 | Total A1-C4 |
| Renewable primary resources used as an energy carrier (RPRE) | MJ, NCV | 2.89E-02 | 9.30E-03 | 1.10E-03 | 0.00E+00 | 0.00E+00 | 7.04E-05 | 0.00E+00 | 1.50E-03 | 4.09E-02 |
| Renewable primary resources with energy content used as material (RPRM) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Non-renewable primary resources used as an energy carrier (NRPRE) | MJ, NCV | 1.49E+00 | 1.52E-01 | 3.72E-02 | 0.00E+00 | 0.00E+00 | 1.81E-03 | 0.00E+00 | 1.04E-02 | 1.69E+00 |
| Non-renewable primary resources with energy content used as material (NRPRM) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Secondary material, secondary fuel and recovered energy | | | | | | | | | | |
| Secondary Material (SM) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Renewable Secondary Fuel (RSF) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Non-renewable Secondary Fuel (NRSF) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Renewable Energy (RE) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Consumption of Fresh Water | m3 | 3.46E-04 | 4.70E-05 | 8.20E-06 | 0.00E+00 | 0.00E+00 | 2.53E-07 | 0.00E+00 | 2.56E-06 | 4.04E-04 |
| Additional inventory parameters for transparency | | | | | | | | | | |
| Removals and emissions associated with biogenic carbon content of the bio-based product | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Emission from calcination and uptake from carbonation | kg CO2-eq. | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Removals and emissions associated with biogenic carbon content of the bio-based packaging | kg CO2-eq. | 0.00E+00 | 2.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Emissions from land use change | kg CO2-eq. | 5.66E-06 | 6.09E-06 | 3.62E-07 | 0.00E+00 | 0.00E+00 | 9.01E-08 | 0.00E+00 | 1.09E-06 | 1.33E-05 |
| Emissions from combustion of waste from renewable sources used in production processes | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Emissions from combustion of waste from non-renewable sources used in production processes | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Indicators describing waste | | | | | | | | | | |
| Hazardous waste disposed | kg | 7.57E-11 | 9.69E-13 | 2.06E-12 | 0.00E+00 | 0.00E+00 | 7.52E-15 | 0.00E+00 | 5.57E-13 | 7.93E-11 |
| Non-hazardous waste disposed | kg | 1.32E-03 | 3.58E-05 | 4.06E-03 | 0.00E+00 | 0.00E+00 | 1.56E-07 | 0.00E+00 | 5.27E-02 | 5.81E-02 |
| High-level radioactive waste | kg | 9.37E-06 | 4.70E-07 | 2.45E-07 | 0.00E+00 | 0.00E+00 | 5.02E-09 | 0.00E+00 | 1.19E-07 | 1.02E-05 |
| Intermediate and low-level waste | kg | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Assignments of output flows at the end-of-life | | | | | | | | | | |
| Components for re-use (CRU) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Materials for recycling (MR) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Materials for energy recovery (MER) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Recovered energy exported (EE) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |



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Environmental Product Declaration

USG Levelrock® Brand Wood Primer

Gypsum, OH and Walworth, WI



The following results cover the Levelrock® Brand Wood Primer in a 275-gallon tote container.

| Environmental LCA Results per Gallon for a 275-Gallon Tote of USG Levelrock® Brand Wood Primer - Walworth, WI | | | | | | | | | | |
|---|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|
| | | Stage | | | | | | | | |
| Impact Assessment Method: TRACI 2.1 | | A1-A3 | A4 | A5 | B1-B7 | C1 | C2 | C3 | C4 | Total A1-C4 |
| Environmental Impact Category | Units | Impact | Impact | Impact | Impact | Impact | Impact | Impact | Impact | Impact |
| Global Warming | kg CO2 eq. | 3.52E+00 | 8.30E-01 | 1.31E-01 | 0.00E+00 | 0.00E+00 | 9.53E-03 | 0.00E+00 | 1.80E-01 | 4.67E+00 |
| Ozone Depletion Potential (ODP) | kg CFC 11 eq. | 2.18E-14 | 1.57E-15 | 1.03E-15 | 0.00E+00 | 0.00E+00 | 1.81E-17 | 0.00E+00 | 2.83E-15 | 2.73E-14 |
| Acidification Potential | kg SO2 eq. | 6.97E-03 | 8.48E-04 | 3.48E-04 | 0.00E+00 | 0.00E+00 | 2.89E-05 | 0.00E+00 | 3.96E-04 | 8.59E-03 |
| Eutrophication Potential (EP) | kg N eq. | 6.36E-04 | 2.03E-04 | 9.01E-05 | 0.00E+00 | 0.00E+00 | 2.96E-06 | 0.00E+00 | 1.89E-05 | 9.51E-04 |
| Photochemical Ozone Creation Potential (POCP) | kg O3 eq. | 1.73E-01 | 2.02E-02 | 5.08E-03 | 0.00E+00 | 0.00E+00 | 6.59E-04 | 0.00E+00 | 7.69E-03 | 2.07E-01 |
| Abiotic Depletion Potential (ADP) - fossil fuels | MJ surplus energy | 1.49E+01 | 1.49E+00 | 3.71E-01 | 0.00E+00 | 0.00E+00 | 1.78E-02 | 0.00E+00 | 9.63E-02 | 1.69E+01 |

| Resource and Waste Flows per Gallon for USG Levelrock® Brand Wood Primer - 275-Gallon Tote - Walworth, WI | | | | | | | | | | |
|---|------------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|
| | Units | Stage | | | | | | | | |
| Use of Primary Resources | | A1-A3 | A4 | A5 | B1-B7 | C1 | C2 | C3 | C4 | Total A1-C4 |
| Renewable primary resources used as an energy carrier (RPRE) | MJ, NCV | 2.15E+00 | 6.92E-01 | 8.17E-02 | 0.00E+00 | 0.00E+00 | 5.23E-03 | 0.00E+00 | 1.12E-01 | 3.04E+00 |
| Renewable primary resources with energy content used as material (RPRM) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Non-renewable primary resources used as an energy carrier (NRPRE) | MJ, NCV | 1.10E+02 | 1.13E+01 | 2.76E+00 | 0.00E+00 | 0.00E+00 | 1.35E-01 | 0.00E+00 | 7.73E-01 | 1.25E+02 |
| Non-renewable primary resources with energy content used as material (NRPRM) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Secondary material, secondary fuel and recovered energy | | A1-A3 | A4 | A5 | B1-B7 | C1 | C2 | C3 | C4 | Total A1-C4 |
| Secondary Material (SM) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Renewable Secondary Fuel (RSF) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Non-renewable Secondary Fuel (NRSF) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Renewable Energy (RE) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Consumption of Fresh Water | m3 | 2.57E-02 | 3.50E-03 | 6.10E-04 | 0.00E+00 | 0.00E+00 | 1.88E-05 | 0.00E+00 | 1.90E-04 | 3.01E-02 |
| Additional inventory parameters for transparency | | A1-A3 | A4 | A5 | B1-B7 | C1 | C2 | C3 | C4 | Total A1-C4 |
| Removals and emissions associated with biogenic carbon content of the bio-based product | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Emission from calcination and uptake from carbonation | kg CO2-eq. | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Removals and emissions associated with biogenic carbon content of the bio-based packaging | kg CO2-eq. | 0.00E+00 | 2.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Emissions from land use change | kg CO2-eq. | 4.21E-04 | 4.53E-04 | 2.69E-05 | 0.00E+00 | 0.00E+00 | 6.70E-06 | 0.00E+00 | 8.10E-05 | 9.88E-04 |
| Emissions from combustion of waste from renewable sources used in production processes | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Emissions from combustion of waste from non-renewable sources used in production processes | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Indicators describing waste | | A1-A3 | A4 | A5 | B1-B7 | C1 | C2 | C3 | C4 | Total A1-C4 |
| Hazardous waste disposed | kg | 5.63E-09 | 7.21E-11 | 1.54E-10 | 0.00E+00 | 0.00E+00 | 5.59E-13 | 0.00E+00 | 4.14E-11 | 5.90E-09 |
| Non-hazardous waste disposed | kg | 9.78E-02 | 2.66E-03 | 3.02E-01 | 0.00E+00 | 0.00E+00 | 1.16E-05 | 0.00E+00 | 3.32E+00 | 4.32E+00 |
| High-level radioactive waste | kg | 6.97E-04 | 3.50E-05 | 1.82E-05 | 0.00E+00 | 0.00E+00 | 3.73E-07 | 0.00E+00 | 8.81E-06 | 7.59E-04 |
| Intermediate and low-level waste | kg | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Assignments of output flows at the end-of-life | | A1-A3 | A4 | A5 | B1-B7 | C1 | C2 | C3 | C4 | Total A1-C4 |
| Components for re-use (CRU) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Materials for recycling (MR) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Materials for energy recovery (MER) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Recovered energy exported (EE) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |



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Environmental Product Declaration

USG Levelrock® Brand Wood Primer

Gypsum, OH and Walworth, WI



The following results cover the application of Levelrock® Brand Wood Primer Powder applied at the recommended application rate. These results are specifically for a 6 pound bag of product produced at Gypsum, OH.

| Environmental LCA Results for USG Levelrock® Brand Wood Primer Powder 1 Square Meter of Applied Coating at the Standard Application Rate - 6-Pound Bag - Gypsum, OH | | | | | | | | | | |
|--|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|
| | | Stage | | | | | | | | |
| Impact Assessment Method: TRACI 2.1 | | A1-A3 | A4 | A5 | B1-B7 | C1 | C2 | C3 | C4 | Total A1-C4 |
| Environmental Impact Category | Units | Impact | Impact | Impact | Impact | Impact | Impact | Impact | Impact | Impact |
| Global Warming | kg CO2 eq. | 3.72E-02 | 2.94E-03 | 9.29E-04 | 0.00E+00 | 0.00E+00 | 3.53E-05 | 0.00E+00 | 6.69E-04 | 4.18E-02 |
| Ozone Depletion Potential (ODP) | kg CFC 11 eq. | 2.96E-15 | 5.57E-18 | 6.12E-17 | 0.00E+00 | 0.00E+00 | 6.71E-20 | 0.00E+00 | 1.05E-17 | 3.04E-15 |
| Acidification Potential | kg SO2 eq. | 6.98E-05 | 3.01E-06 | 2.06E-06 | 0.00E+00 | 0.00E+00 | 1.07E-07 | 0.00E+00 | 1.47E-06 | 7.65E-05 |
| Eutrophication Potential (EP) | kg N eq. | 5.56E-06 | 7.19E-07 | 3.39E-07 | 0.00E+00 | 0.00E+00 | 1.10E-08 | 0.00E+00 | 7.03E-08 | 6.70E-06 |
| Photochemical Ozone Creation Potential (POCP) | kg O3 eq. | 1.74E-03 | 7.18E-05 | 3.91E-05 | 0.00E+00 | 0.00E+00 | 2.44E-06 | 0.00E+00 | 2.85E-05 | 1.88E-03 |
| Abiotic Depletion Potential (ADP) - fossil fuels | MJ surplus energy | 1.51E-01 | 5.30E-03 | 3.23E-03 | 0.00E+00 | 0.00E+00 | 6.61E-05 | 0.00E+00 | 3.57E-04 | 1.60E-01 |

| Resource and Waste Flows for USG Levelrock® Brand Wood Primer Powder 1 Square Meter of Applied Coating at the Standard Application Rate - 6-Pound Bag - Gypsum, OH | | | | | | | | | | |
|---|------------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|
| | | Stage | | | | | | | | |
| Use of Primary Resources | Units | A1-A3 | A4 | A5 | B1-B7 | C1 | C2 | C3 | C4 | Total A1-C4 |
| Renewable primary resources used as an energy carrier (RPRE) | MJ, NCV | 4.55E-02 | 2.45E-03 | 1.01E-03 | 0.00E+00 | 0.00E+00 | 1.94E-05 | 0.00E+00 | 4.15E-04 | 4.94E-02 |
| Renewable primary resources with energy content used as material (RPRM) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Non-renewable primary resources used as an energy carrier (NRPRE) | MJ, NCV | 1.16E+00 | 4.00E-02 | 2.49E-02 | 0.00E+00 | 0.00E+00 | 4.99E-04 | 0.00E+00 | 2.87E-03 | 1.23E+00 |
| Non-renewable primary resources with energy content used as material (NRPRM) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Secondary material, secondary fuel and recovered energy | | | | | | | | | | |
| Secondary Material (SM) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Renewable Secondary Fuel (RSF) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Non-renewable Secondary Fuel (NRSF) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Renewable Energy (RE) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Consumption of Fresh Water | m3 | 4.55E-02 | 4.55E-02 | 4.55E-02 | 4.55E-02 | 4.55E-02 | 4.55E-02 | 4.55E-02 | 4.55E-02 | 4.55E-02 |
| Additional inventory parameters for transparency | | | | | | | | | | |
| Removals and emissions associated with biogenic carbon content of the bio-based product | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Emission from calcination and uptake from carbonation | kg CO2-eq. | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Removals and emissions associated with biogenic carbon content of the bio-based packaging | kg CO2-eq. | 0.00E+00 | 2.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Emissions from land use change | kg CO2-eq. | 4.17E-06 | 1.61E-06 | 1.28E-07 | 0.00E+00 | 0.00E+00 | 2.49E-08 | 0.00E+00 | 3.01E-07 | 6.23E-06 |
| Emissions from combustion of waste from renewable sources used in production processes | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Emissions from combustion of waste from non-renewable sources used in production processes | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Indicators describing waste | | | | | | | | | | |
| Hazardous waste disposed | kg | 9.19E-11 | 2.56E-13 | 1.91E-12 | 0.00E+00 | 0.00E+00 | 2.07E-15 | 0.00E+00 | 1.54E-13 | 9.42E-11 |
| Non-hazardous waste disposed | kg | 5.73E-04 | 9.45E-06 | 4.35E-04 | 0.00E+00 | 0.00E+00 | 4.29E-08 | 0.00E+00 | 1.45E-02 | 1.55E-02 |
| High-level radioactive waste | kg | 1.98E-05 | 1.24E-07 | 4.10E-07 | 0.00E+00 | 0.00E+00 | 1.38E-09 | 0.00E+00 | 3.27E-08 | 2.04E-05 |
| Intermediate and low-level waste | kg | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Assignments of output flows at the end-of-life | | | | | | | | | | |
| Components for re-use (CRU) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Materials for recycling (MR) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Materials for energy recovery (MER) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Recovered energy exported (EE) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |



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Environmental Product Declaration

USG Levelrock® Brand Wood Primer

Gypsum, OH and Walworth, WI



The following results cover the USG Levelrock® Brand Wood Primer in a 6 pound bag produced at Gypsum, OH.

| Environmental LCA Results per Pound for a 6-Pound Bag Pail of USG Levelrock® Brand Wood Primer Powder - Gypsum, OH | | | | | | | | | | |
|--|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|
| | | Stage | | | | | | | | |
| Impact Assessment Method: TRACI 2.1 | | A1-A3 | A4 | A5 | B1-B7 | C1 | C2 | C3 | C4 | Total A1-C4 |
| Environmental Impact Category | Units | Impact | Impact | Impact | Impact | Impact | Impact | Impact | Impact | Impact |
| Global Warming | kg CO2 eq. | 1.15E+00 | 9.11E-02 | 2.87E-02 | 0.00E+00 | 0.00E+00 | 1.10E-03 | 0.00E+00 | 2.07E-02 | 1.29E+00 |
| Ozone Depletion Potential (ODP) | kg CFC 11 eq. | 9.16E-14 | 1.72E-16 | 1.89E-15 | 0.00E+00 | 0.00E+00 | 2.08E-18 | 0.00E+00 | 3.26E-16 | 9.40E-14 |
| Acidification Potential | kg SO2 eq. | 2.16E-03 | 9.31E-05 | 6.34E-05 | 0.00E+00 | 0.00E+00 | 3.32E-06 | 0.00E+00 | 4.55E-05 | 2.37E-03 |
| Eutrophication Potential (EP) | kg N eq. | 1.72E-04 | 2.23E-05 | 1.03E-05 | 0.00E+00 | 0.00E+00 | 3.40E-07 | 0.00E+00 | 2.18E-06 | 2.07E-04 |
| Photochemical Ozone Creation Potential (POCP) | kg O3 eq. | 5.38E-02 | 2.22E-03 | 1.21E-03 | 0.00E+00 | 0.00E+00 | 7.57E-05 | 0.00E+00 | 8.84E-04 | 5.82E-02 |
| Abiotic Depletion Potential (ADP) - fossil fuels | MJ surplus energy | 4.68E+00 | 1.64E-01 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 2.05E-03 | 0.00E+00 | 1.11E-02 | 4.95E+00 |

| Resource and Waste Flows per Pound for USG Levelrock® Brand Wood Primer Powder - 6-Pound Bag - Gypsum, OH | | | | | | | | | | |
|---|------------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|
| | | Stage | | | | | | | | |
| Use of Primary Resources | Units | A1-A3 | A4 | A5 | B1-B7 | C1 | C2 | C3 | C4 | Total A1-C4 |
| Renewable primary resources used as an energy carrier (RPRE) | MJ, NCV | 1.41E+00 | 7.60E-02 | 3.12E-02 | 0.00E+00 | 0.00E+00 | 6.01E-04 | 0.00E+00 | 1.28E-02 | 1.53E+00 |
| Renewable primary resources with energy content used as material (RPRM) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Non-renewable primary resources used as an energy carrier (NRPRE) | MJ, NCV | 3.60E+01 | 1.24E+00 | 7.71E-01 | 0.00E+00 | 0.00E+00 | 1.55E-02 | 0.00E+00 | 8.89E-02 | 3.82E+01 |
| Non-renewable primary resources with energy content used as material (NRPRM) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Secondary material, secondary fuel and recovered energy | | | | | | | | | | |
| Secondary Material (SM) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Renewable Secondary Fuel (RSF) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Non-renewable Secondary Fuel (NRSF) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Renewable Energy (RE) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Consumption of Fresh Water | m3 | 4.55E-02 | 4.55E-02 | 4.55E-02 | 4.55E-02 | 4.55E-02 | 4.55E-02 | 4.55E-02 | 4.55E-02 | 4.55E-02 |
| Additional inventory parameters for transparency | | | | | | | | | | |
| Removals and emissions associated with biogenic carbon content of the bio-based product | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Emission from calcination and uptake from carbonation | kg CO2-eq. | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Removals and emissions associated with biogenic carbon content of the bio-based packaging | kg CO2-eq. | 0.00E+00 | 2.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Emissions from land use change | kg CO2-eq. | 1.29E-04 | 4.97E-05 | 3.95E-06 | 0.00E+00 | 0.00E+00 | 7.70E-07 | 0.00E+00 | 9.31E-06 | 1.93E-04 |
| Emissions from combustion of waste from renewable sources used in production processes | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Emissions from combustion of waste from non-renewable sources used in production processes | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Indicators describing waste | | | | | | | | | | |
| Hazardous waste disposed | kg | 2.85E-09 | 7.92E-12 | 5.91E-11 | 0.00E+00 | 0.00E+00 | 6.43E-14 | 0.00E+00 | 4.76E-12 | 2.92E-09 |
| Non-hazardous waste disposed | kg | 1.78E-02 | 2.92E-04 | 1.32E-02 | 0.00E+00 | 0.00E+00 | 1.33E-06 | 0.00E+00 | 4.50E-01 | 4.81E-01 |
| High-level radioactive waste | kg | 6.13E-04 | 3.84E-06 | 1.27E-05 | 0.00E+00 | 0.00E+00 | 4.29E-08 | 0.00E+00 | 1.01E-06 | 6.31E-04 |
| Intermediate and low-level waste | kg | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Assignments of output flows at the end-of-life | | | | | | | | | | |
| Components for re-use (CRU) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Materials for recycling (MR) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Materials for energy recovery (MER) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Recovered energy exported (EE) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |



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Environmental Product Declaration

USG Levelrock® Brand Wood Primer

Gypsum, OH and Walworth, WI



The following results cover the application of USG Levelrock® Brand Wood Primer applied at the recommended application rate. These results are specifically for a 6 pound bag produced at Southard, OK.

| Environmental LCA Results for USG Levelrock® Brand Wood Primer | | | | | | | | | | |
|---|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|
| 1 Square Meter of Applied Coating at the Standard Application Rate - 6-Pound Bag - Southard, OK | | | | | | | | | | |
| | | Stage | | | | | | | | |
| Impact Assessment Method: TRACI 2.1 | | A1-A3 | A4 | A5 | B1-B7 | C1 | C2 | C3 | C4 | Total A1-C4 |
| Environmental Impact Category | Units | Impact | Impact | Impact | Impact | Impact | Impact | Impact | Impact | Impact |
| Global Warming | kg CO2 eq. | 3.81E-02 | 2.94E-03 | 9.46E-04 | 0.00E+00 | 0.00E+00 | 3.53E-05 | 0.00E+00 | 6.69E-04 | 4.27E-02 |
| Ozone Depletion Potential (ODP) | kg CFC 11 eq. | 2.96E-15 | 5.57E-18 | 6.12E-17 | 0.00E+00 | 0.00E+00 | 6.71E-20 | 0.00E+00 | 1.05E-17 | 3.04E-15 |
| Acidification Potential | kg SO2 eq. | 7.41E-05 | 3.01E-06 | 2.15E-06 | 0.00E+00 | 0.00E+00 | 1.07E-07 | 0.00E+00 | 1.47E-06 | 8.08E-05 |
| Eutrophication Potential (EP) | kg N eq. | 5.94E-06 | 7.19E-07 | 3.46E-07 | 0.00E+00 | 0.00E+00 | 1.10E-08 | 0.00E+00 | 7.03E-08 | 7.08E-06 |
| Photochemical Ozone Creation Potential (POCP) | kg O3 eq. | 1.84E-03 | 7.18E-05 | 4.11E-05 | 0.00E+00 | 0.00E+00 | 2.44E-06 | 0.00E+00 | 2.85E-05 | 1.98E-03 |
| Abiotic Depletion Potential (ADP) - fossil fuels | MJ surplus energy | 1.53E-01 | 5.30E-03 | 3.27E-03 | 0.00E+00 | 0.00E+00 | 6.61E-05 | 0.00E+00 | 3.57E-04 | 1.62E-01 |

| Resource and Waste Flows for USG Levelrock® Brand Wood Primer Powder | | | | | | | | | | |
|---|------------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|
| 1 Square Meter of Applied Coating at the Standard Application Rate - 6-Pound Bag - Southard, Ok | | | | | | | | | | |
| | | Stage | | | | | | | | |
| Use of Primary Resources | Units | A1-A3 | A4 | A5 | B1-B7 | C1 | C2 | C3 | C4 | Total A1-C4 |
| Renewable primary resources used as an energy carrier (RPRE) | MJ, NCV | 4.55E-02 | 2.45E-03 | 1.01E-03 | 0.00E+00 | 0.00E+00 | 1.94E-05 | 0.00E+00 | 4.15E-04 | 4.94E-02 |
| Renewable primary resources with energy content used as material (RPRM) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Non-renewable primary resources used as an energy carrier (NRPRE) | MJ, NCV | 1.16E+00 | 4.00E-02 | 2.49E-02 | 0.00E+00 | 0.00E+00 | 4.99E-04 | 0.00E+00 | 2.87E-03 | 1.23E+00 |
| Non-renewable primary resources with energy content used as material (NRPRM) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Secondary material, secondary fuel and recovered energy | | | | | | | | | | |
| Secondary Material (SM) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Renewable Secondary Fuel (RSF) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Non-renewable Secondary Fuel (NRSF) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Renewable Energy (RE) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Consumption of Fresh Water | m3 | 4.55E-02 | 4.55E-02 | 4.55E-02 | 4.55E-02 | 4.55E-02 | 4.55E-02 | 4.55E-02 | 4.55E-02 | 4.55E-02 |
| Additional inventory parameters for transparency | | | | | | | | | | |
| Removals and emissions associated with biogenic carbon content of the bio-based product | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Emission from calcination and uptake from carbonation | kg CO2-eq. | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Removals and emissions associated with biogenic carbon content of the bio-based packaging | kg CO2-eq. | 0.00E+00 | 2.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Emissions from land use change | kg CO2-eq. | 4.17E-06 | 1.61E-06 | 1.28E-07 | 0.00E+00 | 0.00E+00 | 2.49E-08 | 0.00E+00 | 3.01E-07 | 6.23E-06 |
| Emissions from combustion of waste from renewable sources used in production processes | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Emissions from combustion of waste from non-renewable sources used in production processes | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Indicators describing waste | | | | | | | | | | |
| Hazardous waste disposed | kg | 9.19E-11 | 2.56E-13 | 1.91E-12 | 0.00E+00 | 0.00E+00 | 2.07E-15 | 0.00E+00 | 1.54E-13 | 9.42E-11 |
| Non-hazardous waste disposed | kg | 5.73E-04 | 9.45E-06 | 4.35E-04 | 0.00E+00 | 0.00E+00 | 4.29E-08 | 0.00E+00 | 1.45E-02 | 1.55E-02 |
| High-level radioactive waste | kg | 1.98E-05 | 1.24E-07 | 4.10E-07 | 0.00E+00 | 0.00E+00 | 1.38E-09 | 0.00E+00 | 3.27E-08 | 2.04E-05 |
| Intermediate and low-level waste | kg | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Assignments of output flows at the end-of-life | | | | | | | | | | |
| Components for re-use (CRU) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Materials for recycling (MR) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Materials for energy recovery (MER) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Recovered energy exported (EE) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |



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Environmental Product Declaration

USG Levelrock® Brand Wood Primer

Gypsum, OH and Walworth, WI



The following results cover the USG Levelrock® Brand Wood Primer in a 6 pound bag produced at Southard, OK.

| Environmental LCA Results per Pound for a 6-Pound Bag of USG Levelrock® Brand Wood Primer Powder - Southard, OK | | | | | | | | | | |
|---|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|
| | | Stage | | | | | | | | |
| Impact Assessment Method: TRACI 2.1 | | A1-A3 | A4 | A5 | B1-B7 | C1 | C2 | C3 | C4 | Total A1-C4 |
| Environmental Impact Category | Units | Impact | Impact | Impact | Impact | Impact | Impact | Impact | Impact | Impact |
| Global Warming | kg CO2 eq. | 1.18E+00 | 9.11E-02 | 2.92E-02 | 0.00E+00 | 0.00E+00 | 1.10E-03 | 0.00E+00 | 2.07E-02 | 1.32E+00 |
| Ozone Depletion Potential (ODP) | kg CFC 11 eq. | 9.16E-14 | 1.72E-16 | 1.89E-15 | 0.00E+00 | 0.00E+00 | 2.08E-18 | 0.00E+00 | 3.26E-16 | 9.40E-14 |
| Acidification Potential | kg SO2 eq. | 2.29E-03 | 9.31E-05 | 6.61E-05 | 0.00E+00 | 0.00E+00 | 3.32E-06 | 0.00E+00 | 4.55E-05 | 2.50E-03 |
| Eutrophication Potential (EP) | kg N eq. | 1.84E-04 | 2.23E-05 | 1.06E-05 | 0.00E+00 | 0.00E+00 | 3.40E-07 | 0.00E+00 | 2.18E-06 | 2.19E-04 |
| Photochemical Ozone Creation Potential (POCP) | kg O3 eq. | 5.68E-02 | 2.22E-03 | 1.27E-03 | 0.00E+00 | 0.00E+00 | 7.57E-05 | 0.00E+00 | 8.84E-04 | 6.13E-02 |
| Abiotic Depletion Potential (ADP) - fossil fuels | MJ surplus energy | 4.73E+00 | 1.64E-01 | 1.01E-01 | 0.00E+00 | 0.00E+00 | 2.05E-03 | 0.00E+00 | 1.11E-02 | 5.00E+00 |

| Resource and Waste Flows per Pound for USG Levelrock® Brand Wood Primer Powder - 6-Pound Bag - Southard, OK | | | | | | | | | | |
|---|------------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|
| | | Stage | | | | | | | | |
| Use of Primary Resources | Units | A1-A3 | A4 | A5 | B1-B7 | C1 | C2 | C3 | C4 | Total A1-C4 |
| Renewable primary resources used as an energy carrier (RPRE) | MJ, NCV | 1.42E+00 | 7.60E-02 | 3.15E-02 | 0.00E+00 | 0.00E+00 | 6.01E-04 | 0.00E+00 | 1.28E-02 | 1.54E+00 |
| Renewable primary resources with energy content used as material (RPRM) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Non-renewable primary resources used as an energy carrier (NRPRE) | MJ, NCV | 3.64E+01 | 1.24E+00 | 7.79E-01 | 0.00E+00 | 0.00E+00 | 1.55E-02 | 0.00E+00 | 8.89E-02 | 3.85E+01 |
| Non-renewable primary resources with energy content used as material (NRPRM) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Secondary material, secondary fuel and recovered energy | | | | | | | | | | |
| Secondary Material (SM) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Renewable Secondary Fuel (RSF) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Non-renewable Secondary Fuel (NRSF) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Renewable Energy (RE) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Consumption of Fresh Water | m3 | 4.55E-02 | 4.55E-02 | 4.55E-02 | 4.55E-02 | 4.55E-02 | 4.55E-02 | 4.55E-02 | 4.55E-02 | 4.55E-02 |
| Additional inventory parameters for transparency | | | | | | | | | | |
| Removals and emissions associated with biogenic carbon content of the bio-based product | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Emission from calcination and uptake from carbonation | kg CO2-eq. | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Removals and emissions associated with biogenic carbon content of the bio-based packaging | kg CO2-eq. | 0.00E+00 | 2.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Emissions from land use change | kg CO2-eq. | 1.48E-04 | 4.97E-05 | 4.32E-06 | 0.00E+00 | 0.00E+00 | 7.70E-07 | 0.00E+00 | 9.31E-06 | 2.12E-04 |
| Emissions from combustion of waste from renewable sources used in production processes | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Emissions from combustion of waste from non-renewable sources used in production processes | kg CO2-eq. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Indicators describing waste | | | | | | | | | | |
| Hazardous waste disposed | kg | 2.85E-09 | 7.92E-12 | 5.92E-11 | 0.00E+00 | 0.00E+00 | 6.43E-14 | 0.00E+00 | 4.76E-12 | 2.92E-09 |
| Non-hazardous waste disposed | kg | 1.78E-02 | 2.92E-04 | 1.32E-02 | 0.00E+00 | 0.00E+00 | 1.33E-06 | 0.00E+00 | 4.50E-01 | 4.81E-01 |
| High-level radioactive waste | kg | 6.14E-04 | 3.84E-06 | 1.27E-05 | 0.00E+00 | 0.00E+00 | 4.29E-08 | 0.00E+00 | 1.01E-06 | 6.32E-04 |
| Intermediate and low-level waste | kg | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Assignments of output flows at the end-of-life | | | | | | | | | | |
| Components for re-use (CRU) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Materials for recycling (MR) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Materials for energy recovery (MER) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Recovered energy exported (EE) | MJ, NCV | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

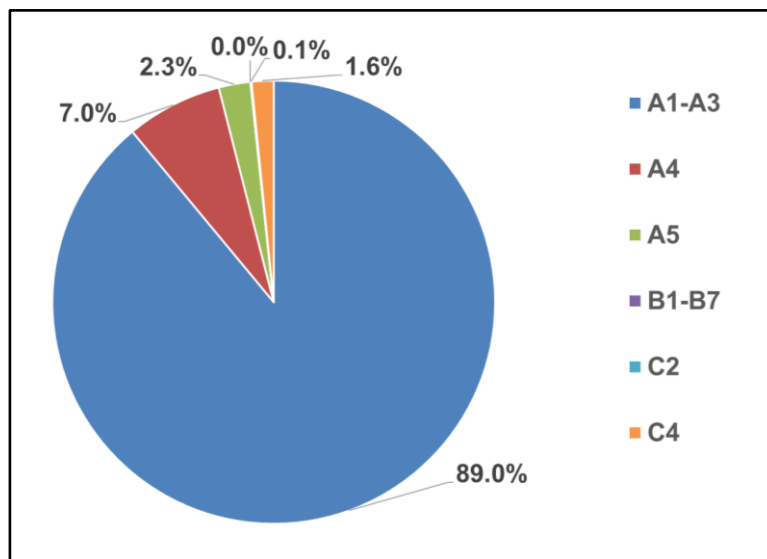


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4. LCA Interpretation

The LCA results for the production of USG Levelrock® Brand Wood Primer were dominated by impacts associated with the polymer content of the product.

Figure 3: Process Dominance Analysis Process Dominance Analysis for GWP for 1 Square Meter of Applied Coating of USG Levelrock® Brand Wood Primer at the Standard Application Rate using a 5-Gallon Pail produced at Gypsum, OH.



5. References

LCA Report

A Cradle-to-Gate and Cradle-to-Grave Life Cycle Assessment of USG Sealers and Primers, 2/2/23. USG (Confidential)

Product PCR

NSF: PCR for Resinous Floor Coatings; valid through December 17, 2023

Sustainability Reporting Standards

ISO 14025:2006 - Environmental labels and declarations — Type III environmental declarations — Principles and procedures

ISO 21930:2017 - Sustainability in buildings and civil engineering works — Core rules for environmental product declarations of construction products and services