# FASTOP™ MULTI SL23

## POLYURETHANE CEMENT SELF LEVELLING FLOOR

REFERENCE: EPD10766
ENVIRONMENTAL PRODUCT DECLARATION GUIDE (EPD)

**Independently verified by NSF in accordance with ISO 21930 and ISO 14025**

**Life cycle assessment independently verified in accordance with ISO 14044**

## DOCUMENT OBJECTIVE:

Provide an overview of the critical data that can be used to calculate the Global Warming Potential (GWP) in kilograms per carbon equivalent (kg $CO_2e$) for this product.

## METHODOLOGY FOR CARBON EQUIVALENT CALCULATIONS:

The document utilises an externally validated methodology that has been developed for all site-applied decorative coatings which has been applied to high performance industrial coatings. The assessment was completed using high-quality datasets including primary source, industry data, and commercial data in the GaBi LCA tool. Although not a perfect fit, it provides comparative data through an established independently verified framework widely in use by the coatings industry.

Key clarifications include:

- Based on Product Stage to End-of-Life of Product (Cradle to Grave)
- Under Product Category Rules (PCR) selected for Architectural Coatings
- Functional Unit: 1 $m^2$ of protected substrate for 60 years (assumed lifetime of the building)
- PCR based on market life of 10 years includes multiple re-applications throughout the life of the building

## WHAT IS CARBON EQUIVALENT?

A **carbon dioxide equivalent** or **$CO_2$ equivalent**, abbreviated as **$CO_2e$** is a metric measure used to compare the emissions from various greenhouse gases on the basis of their global-warming potential (GWP), by converting amounts of other gases to the equivalent amount of carbon dioxide with the same global warming potential.*

## HOW TO CALCULATE THE CARBON EQUIVALENT VALUE FROM THIS EPD DOCUMENT TO USE ON A PROJECT?

| | FASTOP MULTI SL23 | Mixed |
|---|---|---|
| A | Total Quantity Needed using Market-Based Life (kg/$m^2$) **TABLE 4** | 34.26 |
| B | GWP Inc. Bio Carb (kg $CO_2e$) stated on EPD **TABLE 9** | 79.4 |
| C | GWP Inc. Bio Carb (kg $CO_2e$) per 1kg | 2.32 |

* https://ec.europa.eu/eurostat/statistics-explained/index.php?title=Glossary:Carbon_dioxide_equivalent#:~:text=A%20carbon%20dioxide%20equivalent%20or,with%20the%20same%20global%20warmingeu/eurostat/statistics-explained/index.php?title=Glossary:Carbon_dioxide_equivalent#:~:text=A%20carbon%20dioxide%20equivalent%20or,with%20the%20same%20global%20warming


SHERWIN WILLIAMS®

**United Kingdom:**
+44 (0)1204 556420
flooring.enquiries@sherwin.com

**Scandinavia:**
+45 70213888
emea.pm.exportsales@sherwin.com

**Italy:**
+39 327 173 2931
emea.pm.Italy@sherwin.com

**Rest of Europe and Africa:**
+44 (0)1204 556454
emea.pm.exportsales@sherwin.com

**Middle East:**
+971 4 8840200
sales.me@sherwin.com

**India:**
+91 9871900878
pmsales.india@sherwin.com

**resinflooring.sherwin.eu**


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