FIRETEX FX5000 SERIES

ENVIRONMENTAL PRODUCT DECLARATION GUIDE

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 CO₂e) 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 m² 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 **CO₂ equivalent**, abbreviated as **CO₂e** 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?

| FIRETEX FX5000 SERIES | | |
|-----------------------|---|------|
| A | Total Quantity Needed using Market-Based Life (kg) TABLE 3 | 1.64 |
| В | GWP Inc. Bio Carb (kg CO ₂ e) per market service life TABLE 6 | 3.28 |
| | GWP Inc. Bio Carb (kg CO₂e) per kg (A/B) | 2.00 |
| | GWP Inc. Bio Carb (kg CO₂e) per litre (kg x Density) | 2.80 |

EPD REFERENCE: EPD10562

^{*} 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