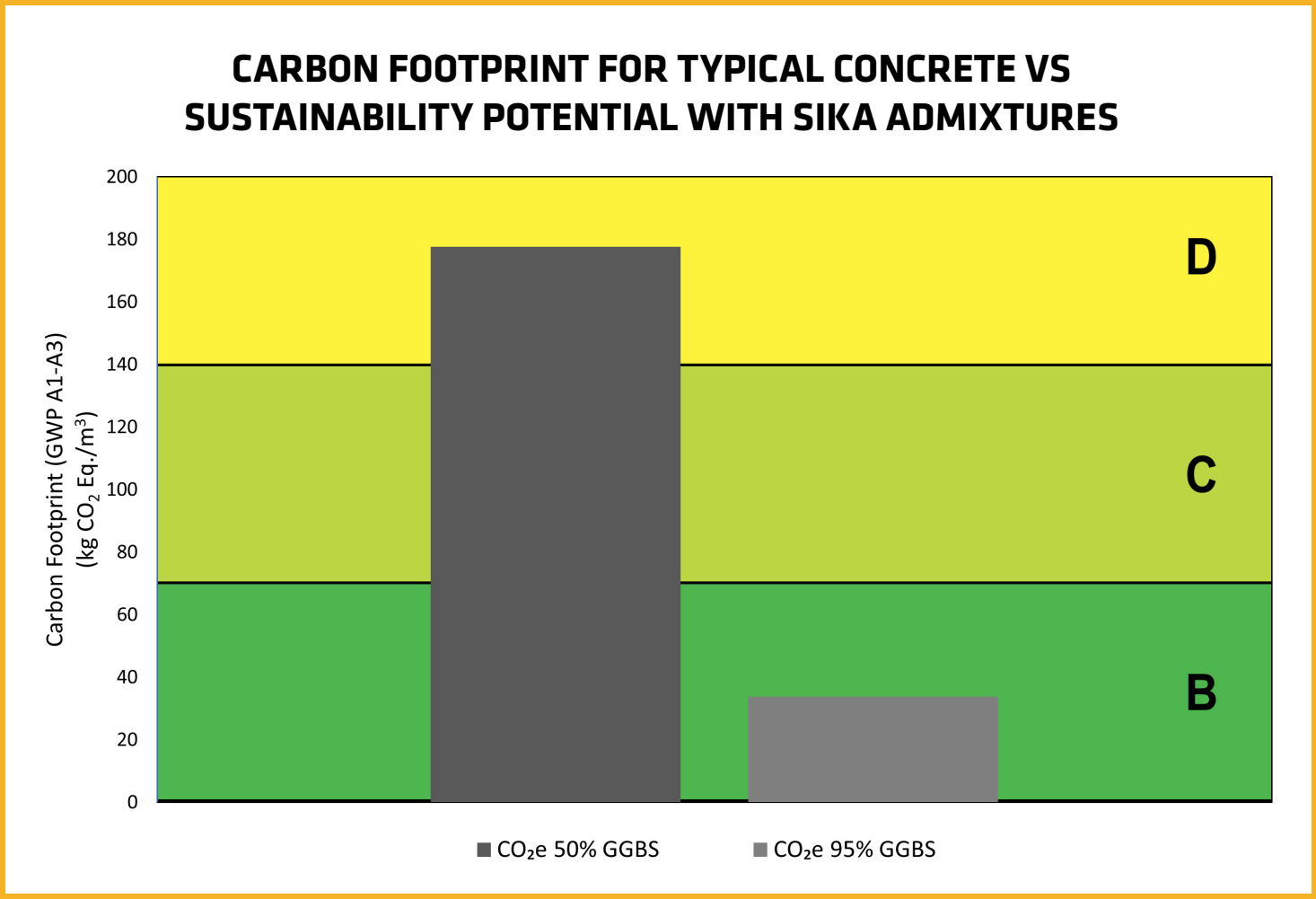
# CUT CARBON, NOT PERFORMANCE

## THE FUTURE OF LOW-$CO_2$ CONCRETE WITH SIKA




### How We Reduce $CO_2$ in Concrete and Maintain Performance

The key to sustainable concrete is reducing the use of CEM I, the primary source of emissions in conventional mixes. By leveraging advanced low-carbon admixtures, you can replace CEM I with high levels of Supplementary Cementitious Materials (SCMs) such as GGBS or PFA–while maintaining strength, durability, and workability. Our cutting-edge technology makes this transition seamless and can lead to **significant $CO_2$ emission reductions, without compromise on performance.**

**Up to 81% Reduction in Binder $CO_2$ Emissions:** Transitioning from a mix with 50% GGBS to one with 95% GGBS using SikaRapid®-950 can achieve an 81% reduction in $CO_2$ emissions associated with the binder. As illustrated in the graph above.

**CLICK HERE AND LOWER $CO_2$ TODAY**

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## ENABLING SUSTAINABLE CONSTRUCTION

### LOW EMBODIED CARBON CONCRETE

Sika offers cutting-edge solutions that significantly reduce $CO_2$ emissions **without sacrificing performance.** Our admixtures and fibre technologies enable high CEM I replacement, enhanced durability, and a lower carbon footprint:

| Product | Purpose |
|---|---|
| **SikaRapid-950** | Low CEM I activator, enabling up to **95% replacement** |
| **SikaRapid-800 ECO** | Low CEM I activator, enabling up to **80% replacement** |
| **SikaRapid-4 UK** | Low CEM I accelerator, high early strength with up to **80% replacement** |
| **SikaFiber-200** | Sustainable, bio-based fibre solution |
| **SikaFiber Force-50** | Polypropylene macro fibres, replacing traditional steel reinforcement for **reduced $CO_2$ emissions** |

### KEY BENEFITS AT A GLANCE


**Lower $CO_2$ Emissions**
Reduce CEM I content by up to 95%

**No Extra Binder Needed**
Achieve sustainability without additional materials

**Strong & Reliable**
Maintain or enhance late-age strength


**Fast Turnaround**
Strip formwork in 24 hours, even with high SCM use

**Reliable Performance**
Compliant with 28-day strength requirement

**Massive $CO_2$ Savings** – Up to 81% binder $CO_2$ reduction with high GGBS replacement

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