

# RENDEROC PLUS RANGE SUSTAINABILITY STATEMENT

## **A future without harm**

As part of DuluxGroup, Fosroc ANZ recognises that commitment to sustainable management of our financial, environmental and social impacts is fundamental to the success and well-being of both our business and our customers. We therefore aspire to deliver on our safety and sustainability vision of “A Future Without Harm”.

Our vision is emphasised by our Safety & Sustainability Policies that are available for download at [fosroc.com.au](http://fosroc.com.au) and [fosroc.co.nz](http://fosroc.co.nz).

## **Use of ground granulated blast furnace slag to reduce carbon emissions**

Cement manufacture is a major contributor to global carbon dioxide (CO<sub>2</sub>) emissions, a significant greenhouse gas. Approximately 900 kg of CO<sub>2</sub> is produced for each tonne (1,000 kg) of cement that is manufactured. CO<sub>2</sub> is produced in both the chemical processes involved with cement manufacture as well as burning fuel in the kiln.

Ground granulated blast furnace slag (GGBFS) is a by-product of iron and steel manufacture and is generally considered a waste product, but GGBFS has pozzolanic activity so it can be used as a replacement for ordinary portland cement (OPC) in concrete.

Using GGBFS as a cement replacement helps to lower the carbon footprint of concrete by repurposing waste from an energy intensive industry, and thereby not releasing additional CO<sub>2</sub> in to the atmosphere. It also provides an improvement to some durability aspects of concrete to increase service life. GGBFS is used in Fosroc Renderoc HB40 Plus, Renderoc HB70 Plus and Renderoc LA55 Plus.



# Renderoc Plus range

## Carbon dioxide emissions related to product manufacture

Ground granulated blast furnace slag (GGBFS) is used in Fosroc Renderoc Plus repair mortars to replace a portion of the ordinary portland cement (OPC). Renderoc HB40 Plus, Renderoc HB70 Plus and Renderoc LA55 Plus thereby have materially reduced CO<sub>2</sub> emissions related to their manufacture compared to the standard Renderoc range.

The percentage of OPC replaced with GGBFS in the Renderoc and Renderoc Plus ranges is shown in the table below.

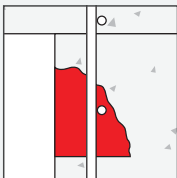


DESCRIPTION	RENDEROC HB40	RENDEROC HB40 PLUS	RENDEROC HB70	RENDEROC HB70 PLUS	RENDEROC LA55	RENDEROC LA55 PLUS
GGBFS % REPLACEMENT OF OPC	N/A	65%	N/A	65%	32%	65%

Note: life cycle assessment calculations are underway to quantify the reduction in CO<sub>2</sub> emissions from the use of the Fosroc Renderoc Plus range.

## Durability improvements

The addition of GGBFS to the Renderoc Plus range of products improves the durability of the repair by lowering the chloride diffusion, ensuring the repair is able to better resist chloride ingress and protect the steel reinforcement from corrosion over time. More information is available on the product TDS.



Concrete Repair

For further information about our concrete repair range visit [fosroc.com.au](http://fosroc.com.au) or [fosroc.co.nz](http://fosroc.co.nz)  
Always refer to the product TDS before making your final selection or speak to your Fosroc representative.

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