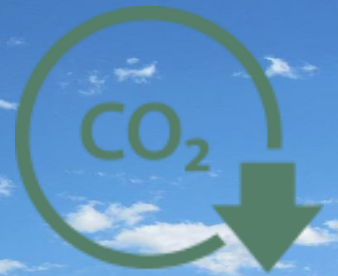




ENVIRONMENTAL MISSION STATEMENT



Join us in the fight against climate change!

Ventsec business, owned and based in Australia since 2020. We are committed to assisting our distribution partners and individual customers take real and effective action to eliminate their impact on our environment and climate change. Our mission is to provide end users a straightforward and robust process to reduce their CO₂ footprint within their operations by utilising Ventsec engineered products and services.

OUR MISSION

According to the International Energy Agency (IEA), cement is the 3rd largest industrial energy user. Cement production accounts for approximately 8% of global greenhouse gas emissions. GHG emissions from cement production contribute 60% during the manufacturing process and 30% for fuel (cement.org.au/sustainability) Cement production is forecast to grow by as much as 38% by 2050.

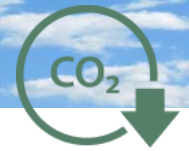
Three key findings by international energy agency to reduce CO₂ in the cement industry

- 1. Utilise alternative fuels within manufacturing processes** (less carbon demanding and energy effective).
Ventsec have a range of less carbon intensive processes within our proprietary licensed products. One of our groups processes in particular, requires minimal energy and produces a product range with substantial carbon reduction values.
- 2. Reduction in cement ratio.**
Ventsec's range of products can aid in reducing total cement content used in modern day mix designs removing 100kg of cement per mix is equivalent to 87kg of CO₂ less in the carbon cycle.
- 3. Alternative binding material usage.**
With our group's decades of experience in patented and trade clandestine formulations utilised in developing low carbon cement technologies, our advantage exceeds that of our base competitors. Our group is planning to target future enhancements in whole life-progression approaches in reducing our CO₂ footprint (transport, energy use, local raw materials, industrial waste integration and recycled aggregates are all examples).

OUR PRODUCTS

Our groups base technologies offer academically verified carbon reductions.

All-in-one cementitious V binders offer a 50% - 85% CO₂ reduction vs the world's leading performance cements, with a further 15% CO₂ reduction vs ordinary Portland cement (OPC). Our V binders are utilised within our grouts, shotcretes, road repair and building products.



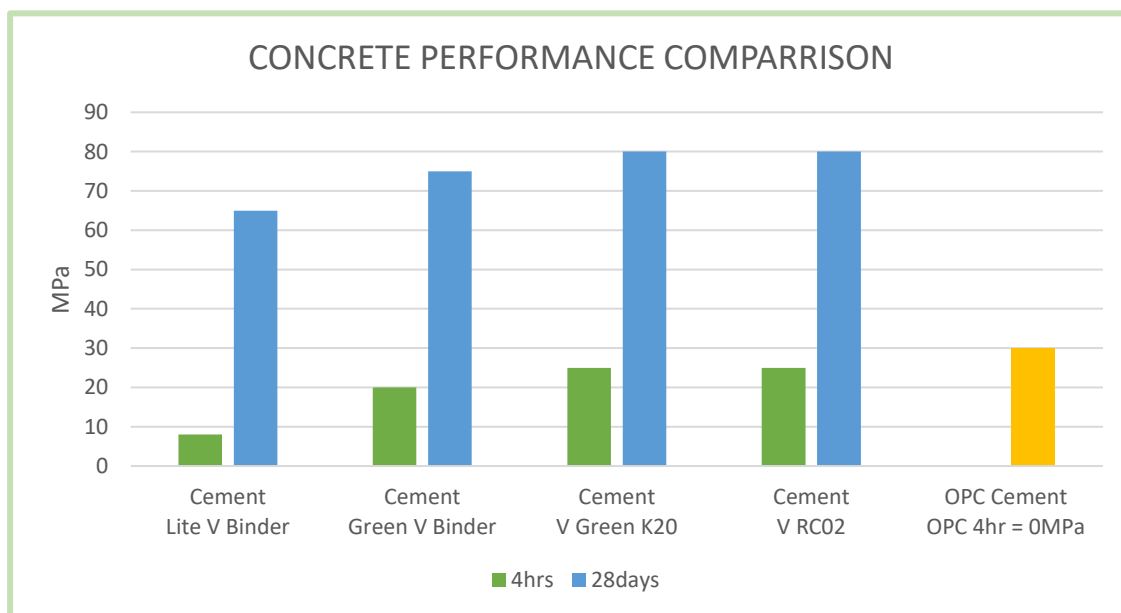
Proprietary powdered chemical additives offer double the strength and is at least 28 x faster (as 28-day strength can be achieved in 1 day), when added at a standard batch volume removing 20% more CO₂ in a cubic metre of concrete vs standard OPC. standards. These technologies are applied to our road repair and building products and can be utilised to dose your standard mix from localised batching facilities.

Our groups patented liquid set accelerator when combined with a Ventsec binder can increase early-age strength by 500-700% (initial 1-2 hours). VFast958 is a liquid accelerator that is dosed to concrete for early set.

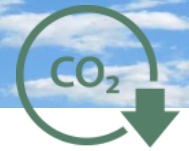
STRENGTH ADVANTAGE

All Ventsec products can achieve a minimum of 10MPa at 4 hours (most at 2 hours).

Ventsec licensed cementitious V binders typically double the 28-day strength of the initial designs. Our technologies also provide increased density, reduced permeability, reduced water and air content, reduced shrinkage, and excellent flexural strength. The improved early strength gain is considered highly desirable to most of our customers in the construction and mineral resources sectors. Our base technologies can be utilised in all facets of construction and cementitious design.



Far right orange column represents standard strength gain at 28 days from mixing with OPC only. It has no 4hr strength comparison as it gains no structure until at least 6 hours+. GTC binder system results are based on the same proportion of OPC cement added into concrete.

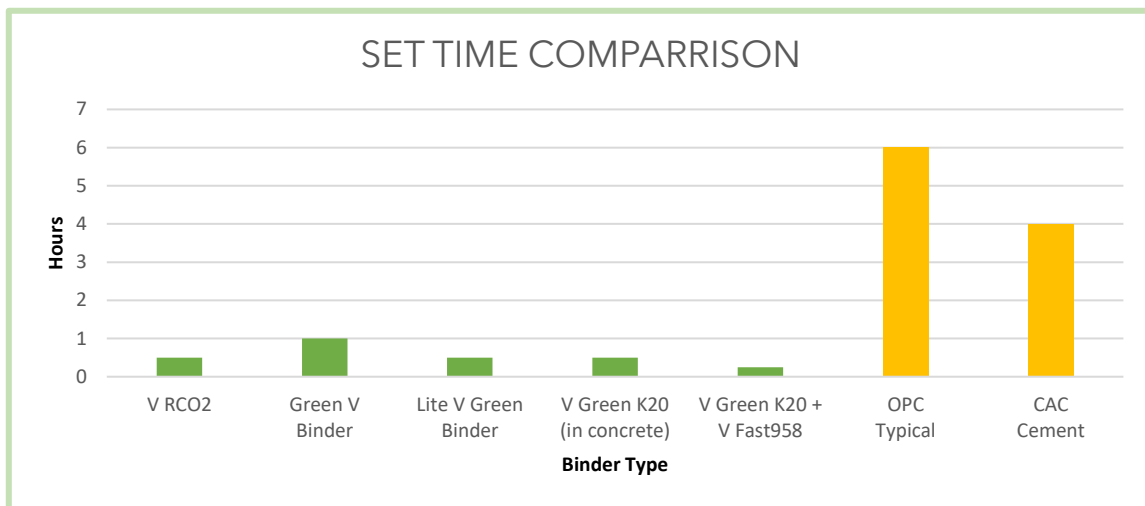


SPEED COMPARISON

Curing time of concrete / grout and shotcrete is advantageous for countless reasoning:

Project construction times can be decreased. 'Advancing' at a speedier rate of installation improving time and budgetary constraints in any sector that utilises cementitious products.

Ventsec products can contain an adjustable retarder to suit our client requirements in relation to curing timing by way of customisation (manufactured to order). In addition, Ventsec products will still solidify at below -20° Celsius (-4° Fahrenheit).



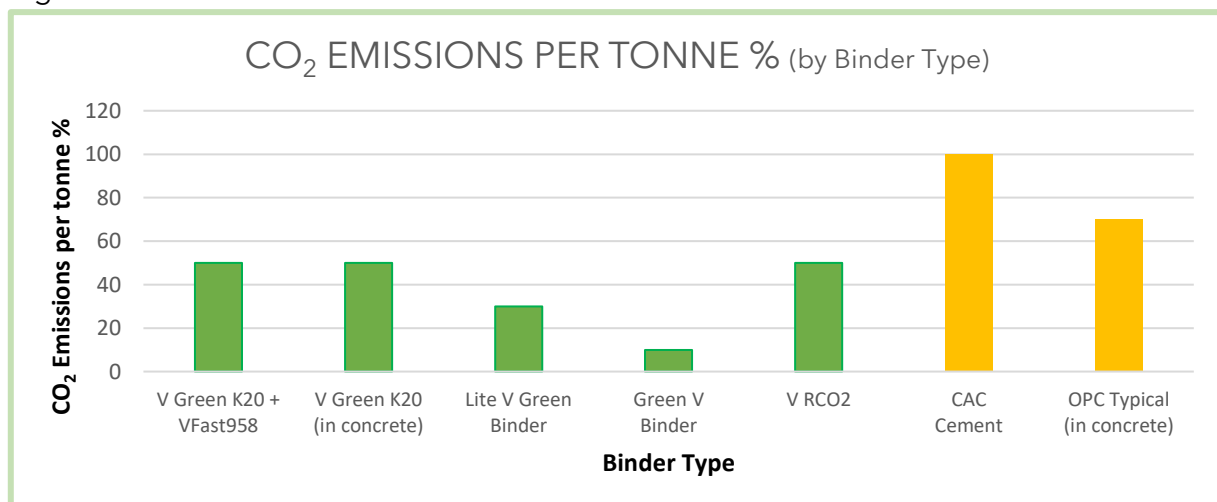
SUSTAINABILITY COMPARISON

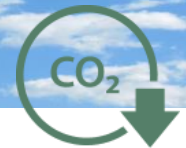
Traditional

- Calcium Aluminate Cement is the most renowned high early strength cement in the current marketplace @1400kg of CO₂ generation per Tonne manufactured.
- Ordinary Portland Cement is the most widely used cement in the world. It emits a global average of 870kg of CO₂ generation per Tonne manufactured. Australia's average is 1000kg of CO₂ generation per Tonne manufactured.

Ventsec Products

All of our cementitious V binders and combination cement systems offer reduced (Per Tonne) manufactured carbon emissions also boasting significant performance gains in speed and strength.



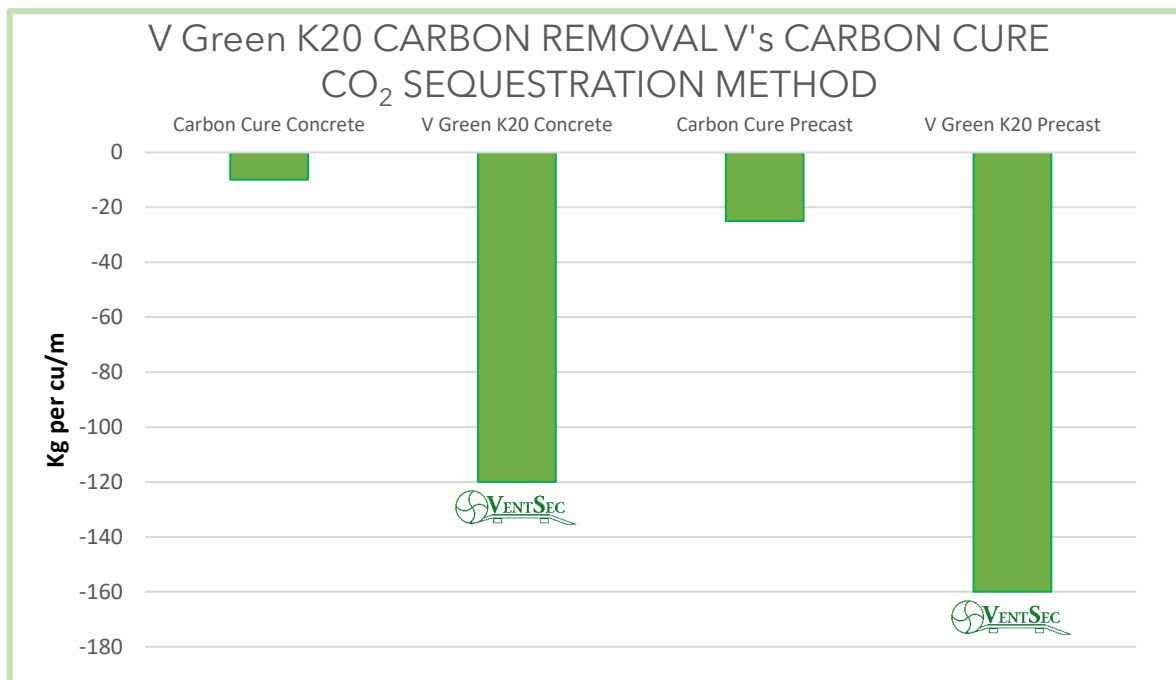


CARBON CURE

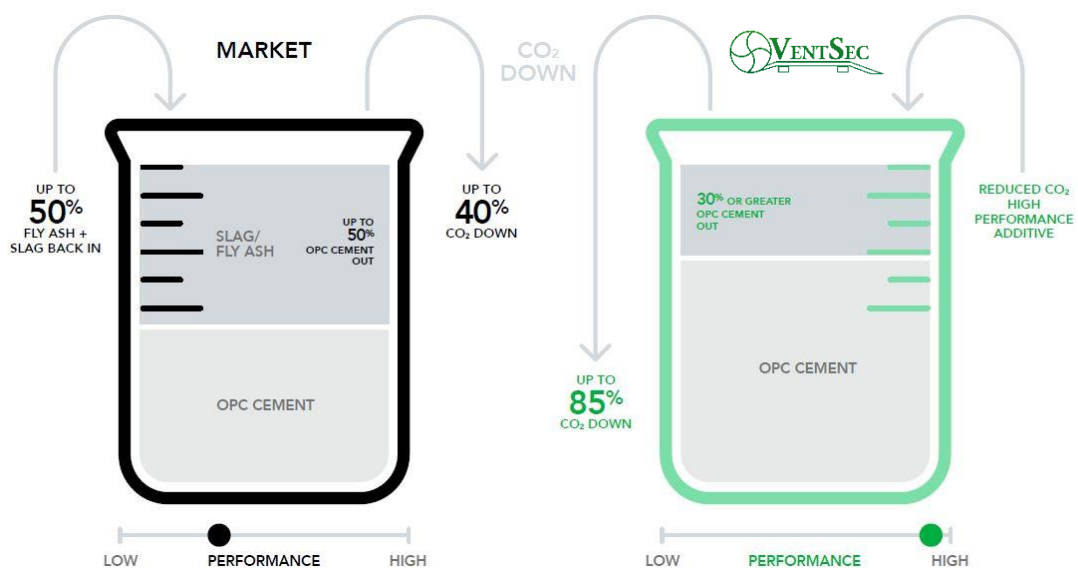
- A carbon removal technology that sequesters carbon gas into procured concrete.
- It claims between 15-25kg of CO₂ is embedded into a cubic metre of concrete.

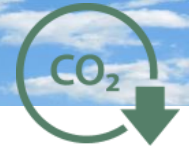
Ventsec Products

Ventsec licenced technologies can remove between 90kg, and up to 370kg of CO₂ per cubic metre of cementitious product.



CARBON REDUCTION APPROACH





COMPETITIVE ADVANTAGE

Many competitors offer legitimate reduced carbon cement alternatives, however, rarely offer combined speed and strength-based performance products.

The performance improvements and CO₂ reductions set the Ventsec cement technology apart from other competitors.

PRODUCT RANGE	INDUSTRY STANDARD PRODUCTS		VENTSEC
	GROUT	CONCRETE	STANDARD PRODUCTS
Standard market products	✓	✓	✓
Low carbon alternatives		✓	✓
High performance including low carbon			✓
Chromium reduction to EU standard			✓
Fast curing concrete			✓
Fast curing grouts	✓		✓
Certified dust free applications			✓
Accelerated concrete 20+ MPa 2 hours			✓
Accelerated concrete 15+ MPa 1 hour			✓
High early and late strength	✓		✓
Carbon removal		✓	✓