

## ENVIRONMENTAL BENEFITS



Climate is a company that has pioneered the application of powder coatings onto non metal substrates such as MDF, plywood and plasterboard. Working closely in partnership with building product Manufacturers and Distributors we deliver one of the most sustainable coating technologies ever.

### The environmental sustainability benefits of powder coating technology

- **No VOCs** - Powder coatings contain no water or solvent; therefore do not emit Volatile Organic Compounds (VOCs).
- **Low Waste** - The powder coating process is very low waste, unutilised powder is collected and re-used during production runs.
- **Low Energy Use** – the Climate powder coating process reduces the amount of heat and energy required to cure the powder coatings onto the substrates using a combination of low curing resins and efficient heating technology.
- **Low Carbon Footprint** - Powder coatings produce the lowest carbon footprint compared to other industrial coatings.
- **Reduced CO<sub>2</sub> Emissions** - Powder Coatings reduce CO<sub>2</sub> emissions by 25 – 60% against conventional solvent-borne coating systems.

## Powder Coating reduces Green House Gas emission.

If all solvent-borne coatings on metal applications in which currently powder coatings can be applied would be replaced by powder coatings, then the Green House Gas (GHG) emissions avoided would be equivalent to:

- the annual emissions of approximately 9.5 million cars *or*
- to approximately 2.9 million trips around the world in a car, *or*
- the average annual carbon footprint of 1,5 million people in Western Europe

(Findings from DSM Powder Coating Resins Research Report [http://www.dsm.com/en\\_US/paint/public/home/downloads/21-LCA-study-new-brand-PPT-version1.pdf](http://www.dsm.com/en_US/paint/public/home/downloads/21-LCA-study-new-brand-PPT-version1.pdf))

## Sustainability– contribution towards Green Star Ratings

Climate powder coating may contribute towards satisfying Green Star Credits in the following rating tools:



Green Star Rating Tool	Australia	New Zealand	Features
Education	IEQ 8	IEQ 3, MAT B	Low VOC coating
Healthcare V1	IEQ 8, MAT 14		Low VOC coating
Office V3	IEQ 13	(V1) IEQ 13, MAT 7, MAT 10	Low VOC coating Can be used in demountable partitioning. PVC alternative.
Office Interiors V1	IEQ 11, MAT 3, MAT 10	IEQ 3, MAT B, MAT- E	
Retail Centre	IEQ 8		Low VOC coating

## Sustainability credentials of substrates Climate applies powder coatings to:

- **MDF** - Eo MDF and Super Eo MDF available
- **Plywood** - FSC Certified plywood substrates available
- **Plasterboard** - Good Environmental Choice certified plasterboard available

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