

Our Achievements to Date

Eco – Cements:



Tec – Cements:



Permecocretes:



Foamed Concretes Patch Repair



Patent Notice

It is not advisable for cements to contain more than 5% non reactive magnesia because of dimensional distress (EN197-1, ASTM C-150) . TecEco hold the patents for the addition of reactive magnesia to Portland and other hydraulic cements so beware of infringement by imitators.

TecEco's business

Comprises:

- Developing and licensing technology
- Selling reactive magnesia (RMgO) to our specifications
- Selling TecSoft software
- Consulting to implement greener concretes and associated offsets
- Developing and licensing more sustainable technologies.
- Manufacturing and licensing/selling SynCarb plants and/or Tec-Kilns
- Making and selling TecEco cements
- Suing infringers of our patents.

Deployment will be by:

- Developing alliances and partnerships with companies with technical, RMgO supply, carbon and other problems we can solve such as
 - Cement companies.
 - Users of concrete.
 - MgO board makers.
 - Coal gasification plants.
 - Power companies.
 - Precasters etc.
- Developing niche markets doing what we know we do well and attracting the larger companies to join us to add economies of scale and momentum.
 - High replacement concretes
 - Marine concretes.
 - Pervious concretes.
 - Bricks, blocks and pavers.
 - Foamed concretes etc.

Promotion will be:

- Mostly internet and conference based depending on resources.





About TecEco

TecEco Pty. Ltd. is a much plagiarized and copied “green” start-up company founded by John Harrison who is a scientist, economist and accountant to research, develop and deploy sustainable technologies.

The company has successfully developed its reactive magnesia – Portland cement blends and is now raising capital to make reactive magnesia at a price that will make concretes containing it competitive in the market place and to further develop the revolutionary new SynCarb process to sequester significant quantities of CO₂.

TecEco Gaia Engineering technologies for making synthetic carbonate are potentially very profitable and unlike other options for cheaply solving the global warming problem being explored there are no legacies for future generations to deal with. The process is also potentially profitable as sequestration is into an insatiable market for cheaper, better building materials.

The rapid deployment of Gaia Engineering technologies to avoid environmental catastrophe and to help revitalise the global economy is essential. For corporates and financiers there is the opportunity to make money. Governments can solve the global warming problem without negative economic impacts, long term legacies or political risk.

The company have commenced construction of small scale plant in containers, two being required for a working implementation, one for the

continuous capture of CO₂ and the other for the production of reactive magnesia in a new kiln design that operates in a closed system and combines calcination with grinding.

TecEco - Cements

Tec-Cements are blends of reactive magnesia (rMgO) and hydraulic cements such as Portland cement and preferably high proportions of supplementary cementitious materials which either react with Portlandite (or lime) making more cement or are latently cementitious and are activated by Portland cement. The use of rMgO in hydraulic cement mixes provides a solution to many of the technical problems that plague traditional cement formulations and allows the use of increased proportions of SCM's as they result in faster setting. 50% replacement Tec-Cements for example set as quickly and gain strength more rapidly than 100% PC concretes. Tec-Cement concretes have better rheology, less shrinkage and bleeding and greater durability.

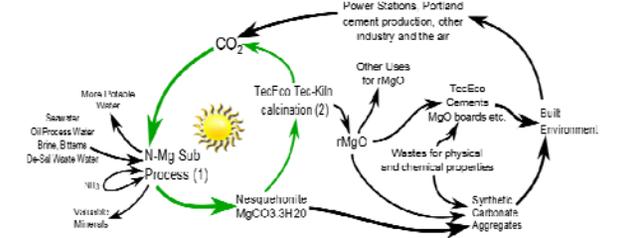
Enviro-Cements are made using higher proportions of reactive magnesia (rMgO) than Tec-Cements. The rMgO hydrates to form brucite which is an ideal mineral for trapping toxic and hazardous wastes due to its layered structure, mildly alkaline equilibrium pH level, durability and low solubility.

Eco-Cements have relatively high proportions of reactive magnesia which in gas permeable materials carbonates adding strength and durability. Eco-Cement formulations are generally used for bricks, blocks, pavers, pervious pavements and other permeable cement based products.

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SynCarb – Profitable carbon Capture and Storage



Carbon capture from the burning of fossil fuels and manufacture of Portland cement.

