Allied Concrete Ecrete - Low Carbon Concrete

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1 Specification Details

Trade Sections: Concrete, Landscaping
Description: Low Carbon Concrete
Keywords: Concrete, Siteworks, Allied Concrete, Ecrete Concrete, concrete slabs, concrete paving, mixed concrete, aggregates, carbon, low carbon, green concrete

2 Clauses

2.1 Scope

Help Note:
Ecrete - Low Carbon Concrete is suitable for the construction of NZS 3604 concrete slab-on-ground slabs, residential and commercial suspended concrete slabs, and for residential and commercial driveways and paving.

Contact Allied Concrete on 0800 4 255 433 for further information and product availability.

2.1.1 Scope

Supply, place and finish the selected Allied Concrete Ecrete - Low Carbon Concrete to the locations identified on the drawings. All aspects of this work shall be in accordance with the Allied Concrete 'technical literature' (check www.alliedconcrete.co.nz, or call 0800 4 255 433 for the latest editions), and as shown and noted on the drawings.

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No substitutions are permitted for Allied Concrete Ecrete - Low Carbon Concrete.

Refer to other relevant sections of Concrete and/or Siteworks for all materials, workmanship, systems and other specific requirements.

2.2 Co-operation

2.2.1 Co-operation:

Co-operate with other trades to ensure that all preliminary and preparatory works are completed to specification and as shown on the drawings prior to installation.

Co-ordinate with other trades to ensure appropriate substrate conditions, and as required, when using the selected Allied Concrete Ecrete - Low Carbon products.

2.3 Ecrete - Low Carbon Concrete

2.3.1 Ecrete - Low Carbon Concrete:

Ecrete - Low Carbon Concrete is a reduced embodied carbon product designed with specific formulations that reduce the carbon to specified limits. Install Ecrete - Low Carbon Concrete to the locations and details shown on the drawings.

Features:

- Simple to use and place
- Suitable for pump applications
- Ideal for aggresive ground conditions
- Verified and measurable reduction in embodied carbon
- Recognised by Green Star, Homestar and Greenroad organisations

Benefits:

- Increased Durability - longer service life and lower maintenance
- Decreased heat generation - can reduce thermal cracking and improve overall durability of the concrete
- Decreased permeability - reduces the likelyhood of corrosion and other damage caused by exposure to water and chemicals

Product Details:

- Application - Refer to 'Application' clause
- Concrete mix type - Refer to 'Concrete mix' clause
- Coverage - Refer to 'technical literature'
- Mass: Refer to 'Technical literature'
- Finish: as specified on design drawings
- Edges: as specified on design drawings

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Installed Location:

2.4 Application

2.4.1 Residential Concrete Slabs:

Residential concrete floor slabs; including slab-on-ground and suspended concrete slabs, to the layout, dimensions and details shown on the drawings.

Location:

2.4.2 Residential Concrete Paving:

Residential on-ground concrete paving; including driveways, courtyards and paths, to the layout, dimensions and details shown on the drawings.

Location:

2.4.3 Commercial Concrete Slabs:

Commercial concrete floor slabs; including slab-on-ground and suspended concrete slabs, to the layout, dimensions and details shown on the drawings.

Location:

2.4.4 Commercial Concrete Paving:

Commercial on-ground concrete paving; including driveways, courtyards and paths, to the layout, dimensions and details shown on the drawings.

Location:

2.5 Concrete Mix

2.5.1 Ecrete - Low Carbon Concrete - E10:

Ecrete - Low Carbon Concrete - E10. Low Carbon concrete with innovative mix design that reduces the embodied carbon by up to 20%. Suitable for concrete systems as specified in the 'technical literature'. Plant batched in accordance with NZS 3104:2003. Placed, compacted and cured in accordance with NZS 3109.

Use - Where standard concrete products are used without any change to workability and performance.

MPA range - 20 to 50 MPA

Location:

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