

CORESTRUC

(PTY) LTD

Construction of Concrete Pre-Cast Structures

*At the Forefront of Pre-cast
Structural Ingenuity*

www.corestruc.co.za



A LEADER IN PRE-CAST CONCRETE STRUCTURES

Corestruc is a leading designer, manufacturer and builder of pre-cast concrete structures in South Africa and neighbouring countries.

Our impressive portfolio of completed projects spans public-sector infrastructure, including reservoirs, water-treatment works, bridges and stadia, through to private-sector retail, industrial and commercial, as well as government-related property developments.



QUALITY MANUFACTURE

Corestruc's advanced batching plant ensures the highest quality pre-cast concrete items.

Sensors inside constantly monitor the temperature and moisture content of the concrete mix, comprising materials that are only sourced from trusted suppliers. Only washed aggregates and sand enter the production cycle, and silica fume is used to produce a concrete mix with a denser micro-structure.

The mix is poured into specialised forms and moulds that guarantee accurate casting, while our own separate steel-fixing yard ensures a high quality reinforcing in the concrete casing.

LEADING RESEARCH AND DEVELOPMENT

Innovation is at the heart of Corestruc's continued growth, and penetration into new markets.

Our engineering and design teams continue to revolutionise. This has led to high-performance concrete mixes that contribute towards a more robust and aesthetically-pleasing structure through to more efficient ways of transporting and handling items on site while streamlining installation processes.



QUICK, ACCURATE AND ROBUST BUILDS

Corestruc's modular systems offer many advantages, not least of which are the speed and accuracy achieved in construction programmes. Our high-quality concrete systems also contribute towards a more durable final structure.

RESERVOIRS

Corestruc's pre-cast concrete roof systems have been deployed on a number of reservoir construction programmes, since we entered this market in 2010 to help complete a 50 mega-litre reservoir in Krugersburg. We have since ventured into the design and installation of pre-cast concrete reservoir walls, complementing our existing value-offering to professional teams.



Rustfontein 14 ML reservoir



Palm Ridge 35 ML reservoir



Mafenya 50 ML reservoir

RESERVOIR IN PERSKEBULT

An excellent example of Corestruc's ongoing involvement in reservoir projects is the construction of the 30 mega-litre square reservoir in Perskebult.

The company designed and installed a pre-cast roof structure comprising 320 millimetre hollow-core slabs spanning 11 metres (m) to 16 m between grid centres. They are supported by pre-cast, pre-stressed I-beams. These, in turn, are supported by pre-cast reinforced square and H-columns. Pre-cast, pre-stressed hollow-core slabs were installed between the H-columns to form the baffle walls that direct water into the structure.



Perskebult 30 ML reservoir



STRUCTURES

We have designed and built many pre-cast concrete structures for both private- and public-sector property developers. Our systems provide a durable build that continues to add value for many years, while offering a more cost-effective alternative on longer spans due to pre-tensioning. Corestruc's systems comprise quality pre-cast concrete columns, beams and slabs that have been used to build structures as tall as six-storeys. Here, continuous pre-cast concrete columns extend all the way from ground level to the roof, bearing the structural steel, as well as pre-cast concrete floor slabs and beams. They are swiftly assembled on site by our small and industrious teams.



2Ten Hotel



Civic Centre in Giyani



Department of Energy administration block



STADIA

Our stadia systems have already been deployed on a host of municipal sports complex projects to significantly reduce construction cycles. A 90 metre-long pavilion can be installed in as little as eight working days, depending on site conditions.



The system comprises pre-cast concrete columns, raker beams, seating benches and side panels that are installed by our team once earthworks and site terracing for the stadium is completed by the main contractor. After casting the concrete bases and installing the connection bolts, the columns are fixed in position and aligned, ahead of the placement of the raking columns and seating benches.



BRIDGE BEAMS

Corestruc and Coreslab have earned a solid reputation in the South African construction industry for the quality of their bridge beams, which have been installed on a number of milestone projects. The companies manufacture and install all types of M, I and F-type bridge barriers, or parapets.

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