

Gorgon liquified natural gas (LNG) project

Master Builder Solutions – precision grouts

Project:

Gorgon LNG project

Location:

Western Australia

Project completed:

2016

Applicator/Contractor:

CB&I Kentz Joint Venture
(CK JV)

Concrete Producer:

Holcim (BASF admixtures)

Market sector:

Precision grouts

Products used:

MasterFlow 4500, MasterFlow
815, MasterFlow 648 and
MasterFlow 618

Sales contact:

Bernard Philpott



The Gorgon facility in Western Australia

The background

The Gorgon Project is one of the world's largest natural gas projects and the largest single resource development in Australia's history. This Project is a joint venture between the Australian subsidiaries of Chevron, ExxonMobil, Shell, Osaka Gas, Tokyo Gas and Chubu Electric Power.

The project involves developing the gas fields within the Greater Gorgon area, located off the North West coast of Western Australia (WA). It also includes the construction of a 15.6 million tonne per annum liquefied natural gas (LNG) plant on Barrow Island and a smaller domestic gas plant.

The challenge

In order to build the state-of-the-art LNG facility, CK JV needed a supplier that could deliver the full range of precision grouting products. They also needed a supplier that understood the local environmental and regulatory challenges. They needed to adhere to the biosecurity restrictions put in place to protect the *Class A* reserve status of the site on Barrow Island.

CK JV needed a trusted global company with the highest level of quality assurance. Also critical to the Project was surety of supply. Given the remote location, lead time from placement of order to arrival on site, was a period of several weeks. This required careful management of scheduling between BASF and the several sub-contractors involved.

Contact:

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The Gorgon project under construction



Cargo ship arrives at Barrow island

Our solution

In 2009, the Master Builders Solutions team at BASF first began working with the team of CK JV global engineers before construction commenced. These engineers then became the CK JV team leaders in Australia when the Project eventually began in 2011, and this early interaction built the trust and confidence required.

BASF had the quality assurance systems the client was looking for. We further tailored these quality systems to meet the biosecurity requirements.

BASF's packaging and supply systems were aligned to meet the biosecurity restrictions, including labelling, packaging, transport, and fumigation.

Individual quality assurance certificates were issued for every batch supplied to the project.

BASF also implemented certified on-site applicator training for both placing and testing of our products.

BASF facilitated bio-secured fresh product on site on time, in line with the arrival of overseas modules.

The customer's benefit

- Exclusive partner from design to production over the five-year period
- Maintained the status *Class A* nature reserve
- Secured quality assurance for a unique project in a unique environment
- Met the strict biosecurity demand imposed for the Project

Projects facts at a glance

- Construction of Gorgon LNG project was 2011-16
- A range of Master Builders Solutions' cementitious precision and epoxy grouts were used, including MasterFlow 4500, MasterFlow 815, MasterFlow 648 and MasterFlow 618

Master Builders Solutions from BASF

The Master Builders Solutions brand brings all of BASF's expertise together to create chemical solutions for new construction, maintenance, repair and renovation of structures. Master Builders Solutions is built on the experience gained from more than a century in the construction industry.

The know-how and experience of a global community of BASF construction experts form the core of Master Builders Solutions. We combine the right elements from our portfolio to solve your specific construction challenges. We collaborate across areas of expertise and regions and draw on the experience gained from countless construction projects worldwide. We leverage global BASF technologies, as well as our in-depth knowledge of local building needs, to develop innovations that help make you more successful and drive sustainable construction.

The comprehensive portfolio under the Master Builders Solutions brand encompasses concrete admixtures, cement additives, chemical solutions for underground construction, waterproofing solutions, sealants, concrete repair & protection solutions, performance grouts, performance flooring solutions.