

Project:

Umm Wu'al Phosphate Project

Location:

Turaif, Northern Borders
Province, Kingdom of Saudi
Arabia

Project completion:

2016

Owner/s:

Ma'aden (Saudi Arabian Mining
Company)

Applicator/Contractor:

SINOPEC Engineering Group
Saudi Co. Ltd

Designer/Architect/Specifier:

Jacobs Engineering Group

Market sector:

Industrial

Products used:

MasterProtect 1801
MasterProtect 1822
MasterProtect P 1895
MasterProtect 1892

Total Area of Applications:

45 000 m²

Umm Wu'al Phosphate Project

Corrosion Protection: MaterProtect 1800 series



Our reference in Turaif, Northern Borders Province (Kingdom of Saudi Arabia): Umm Wu'al Phosphate Project Picture
Source: Annual Report - 2016, Maaden official website.

The background

The Saudi Arabian Mining Company (Ma'aden) intends to develop the Umm Wu'al Phosphate Project in the Kingdom of Saudi Arabia.

This project is based on the exploitation and processing of the Al Khabra phosphate deposit and the utilization of captive natural resources in the northern region of the Kingdom of Saudi Arabia (KSA), and is taking advantage of the existing and planned railway infrastructure, linking the phosphate deposits of Umm Wu'al area in the northern region with the Industrial City of Ras Al Khair on the Arabian Gulf.

The challenge

- The project location is in a remote area; 1200 Km from Al-Khobar city.
- Harsh climatic conditions.
- To specify the proper lining system for the internal surface of each kind of chemicals storage tanks, secondary containments, pavements, loading and unloading areas and others ... in compliance with the high required standards of the project.
- Shortest lead time - Logistics.

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Our solution

- A non-toxic high build, phenol novolac protective epoxy resin coating system, (MaterProtect 1822) was applied where a resistance to sulfuric acid (98%) spillages was required.
- A high-performance corrosion resistant vinyl ester coating system, (MaterProtect 1892) was utilized for the internal lining of chemical storage tanks and vessels where chemicals or hot media are to be stored.

The customer's benefit

- The recommended solutions can easily withstand the harsh environmental conditions.
- An on-site technical assistance and training were provided to ensure the proper application of the proposed systems.
- *Master Builders Solutions Saudi* manufactured and supplied the specified products of protection as per the planned schedule.
- Health friendly application - EHS.
- Short re-coating interval - Fast completion.

Projects facts at a glance

- The properties of proposed systems exceeded the required specifications.
- The delivery was on time despite the project remote location; Indirect distribution channel supported the logistic operations.
- On time completion of the project even in harsh weather conditions.

Master Builders Solutions by MBCC Group

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Master Builders Solutions is built on the experience gained from more than a century in the construction industry. At the core of the Master Builders Solutions brand is the combined know-how and experience of a global community of MBCC construction experts, who connect with you to solve all of your construction challenges.

Further information is available at:

<https://www.master-builders-solutions.com/en-sa>