



SIKA AT WORK

ASSIUT BARRAGE PROJECT

CONCRETE: Sikament®-R4QV (CD)

WATERPROOFING: Tricosal® Rubber Waterstop, Sikafuko® ECO-1

BUILDING TRUST



ASSIUT BARRAGE PROJECT



Project Description:

- - The New Assiut Barrage Located on the Nile that will replace an existing dam dating back to the early 20th century.
- The New Dam will include a low head hydropower plant providing about 32 Megawatts with four 8 MW turbines and a Bridge over the Nile It will have double locks to allow navigation on the Nile and is designed to maintain a head of 4 metres to ensure discharge of a minimum 445 m³/s flow into the Ibrahimia Canal to irrigate nearly 700,000 hectares of land between the dam and Cairo.

Project Requirements:

- Very high range Water-reducing and slump retaining concrete admixture.
- Elastomer Waterstop for Sluiceways ,Navigation Lock and power house concrete structures.



Special Requirements:

- Concrete admixture especially suitable for use in concrete mixes containing Fly Ash
- Concrete admixture suitable for tropical and hot climatic conditions and for mass concrete .
- High tensile strength and elongation Waterstop made from Elastomers, SBR (styrene butadiene rubber) waterstops or by natural or synthetic rubber shall conform to DIN 7865 and shall have an elongation at breaking stress of at least 500% at 25°C and shall be capable To accommodate a transverse movement of at least 50 mm.
- Injection and re-injection Hose systems.

Sika Solution:

Sika proposed :

- Sikament R4Qv (CD) as a Very High Range Water-Reducing and Slump Retaining Concrete Admixture , especially suitable for use in concrete mixes containing Fly Ash and suitable for hot climatic conditions.
- Elastomer Water Stop FM 350 -500 ,FMS 350-500 ,FMS 500 HS as Waterstops for joint sealing in watertight concrete structures according to DIN 7865-1-2
- Sikafuko ECO-1 as Injection Hose systems .

Why Sika:

- Sika has a long lasting references with water and irrigation projects in Egypt as Toshka pumping station, Essna barrage, Syphon under Suez canal and others..
- Sika owns know how of wide rubber profile Waterbars specified for this project.

Products Delivered:

- Sika admixtures 1,400,000 Itrs
- Tricosal rubber 3000 M'
Waterstop





Project Participants:

- Owner: The Egyptian Ministry of Water Resources and Irrigation (MWRI)
The Ministry of Electricity and Energy (MEE)
- Consultant: Lahmeyer International German Group
- Main Contractor: (NABJV) EGYPTIAN FRENCH NEW ASSUIT BARRAGE JV (O.A.O - Vinci - Orascom)

For More Projects Information



http://egy.sika.com/en/group/Publications/Sika_At_Work.html

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