The Sutong Bridge Project in China

The longest Cable Stayed Bridge in the World (32.4 Km)

Conclusion:
Sika's global experience with innovative technologies and local "onsite" service is supporting the successful construction of this huge project.

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The longest Cable Stayed Bridge in the World (32.4 Km)
The longest Cable Stayed Bridge in the World with Sika®

Project
Sutong Bridge lies between Nantong City and Changshu (near Suzhou City) in the east of Jiangsu Province (Eastern China), an important passageway across the Changjiang River in the national key highway system planned by the Ministry of Communications. This project is on a massive scale and the construction project will be one of the most complicated one ever built in China.

The total length of the Sutong Bridge project is 32.4 km. It consists of three sections: the north bank link, the main crossing and the south bank link.

The whole project requires 200’000 tons of steel, one million cubic metre of concrete for the bridge and culverts and 3 million cubic metre of earthworks. The total investment for the project is more than RMB 6 billion (about US $ 750 Mio.) and the programmed construction period is 6 years from 2003 to 2009.

Requirements
1. Main Crossing:
   - total length is 8'206 m.
   - The main bridge is a double-cable-plane double-pylon steel box girder cable-stayed bridge.
   - Special channel is 140 + 260 + 140 = 548 m T-type steel girder bridge, which is the second largest of the same type of bridge in the world.
   - Both north and south approach bridges are 30, 50 and 75 m prestressed concrete continuous girder bridges.

2. North Bank Link:
   - the total length is 15.1 kms and there will be two interchanges, a tollgate on the main highway and a service zone.

3. South Bank Link:
   - the total length is 9.1 km, and there will be one interchange.

Sika Solution
Admixtures:
- Sika® ViscoCrete® for production of all of the precast concrete elements.
Adhesives:
- Sikadur®-31 SBA (Segmental Bridge Adhesive) for bonding of the precast concrete segments
Grout:
- Sikadur®-42 for grouting highload bearing pads.

Project Participants
Contractor for the B2 Section:
Second Navigational Engineering Bureau (SNEB) of China Harbor Engineering (Group) Company

Consultant:
COWI Co., Denmark (COWI Co., Denmark will supervise the whole process of the Sutong Bridge construction. They will provide technical control on the construction site for technical services and specialists will be responsible for the key areas.)

Owner:
Jiangsu Sutong Bridge Co., Ltd.
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