



# SIKA AT WORK

## ROD ELFARAG AXIS

REFURBISHMENT : SikaCrete®-114, SikaRep®, SikaWall®-110 Cemputty  
SikaGard®-550 W Elastic, Sikagard®-552 W Aquaprimer

CONCRETE : SikaViscocrete®- 3425, SikaFume®, Intraplast® Z

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# ROD ELFARAG AXIS

## Project Description:

- Rod Al-Farag two-way axis, estimated to cost around 500 million CHF, comprises six lanes of roads in each direction along with two lanes for buses and an electric metro train line, containing almost the biggest flyover in the world, saving 200,000 liters of fuel per day. The project has taken 300,000 tons of steel and a million cubic metres of concrete to construct.

## Project Requirements:

- Sika Long-term protection system for more than 600000m<sup>2</sup> of concrete of such a huge mega project in Egypt , using SikaGard®-550 W Elastic system which delivers high performance Anti carbonation protection in accordance with the principles and methods as defined in European EN 1504 ,with Future repair and maintenance strategy.
- Cement base Free Flowing Micro-concrete Grouting as Bridge bearing plates grout, meeting the project requirement of early strengths with the required flow ability.
- Produce Concrete with compressing strength minimum 75 MPA .

## Special Requirements :

- Produce Concrete with compressing strength minimum 75 MPA ( 28 days )
- Anti carbonation protection Low emitting and VOC content which meet the Government environmental programmers
- The Grouting for the bride bearing plate with flow ability and pouring thickness application in one shot and high early strengths meeting the crushed schedule of the project.
- Complete system for Sika anti carbonation including concrete repair and levelling.





## Sika Solution:

### Refurbishment :

-SikaCrete®-114 grouting and precision application for the bridge bearing plate.

-levelling pore sealer and Repairing of Concrete using SikaRep® and SikaWall®-110 Cemputty

-Sikagard®-552 W Aquaprimer is part of a system that complies with the requirements of EN 1504-2 as a protective coating.

-Sikagard®-550 W Elastic is used for protection with High diffusion resistance against CO2 reducing the rate of carbonation.

### Concrete :

-SikaViscocrete®- 3425 which represents Sika third generation super plasticizer.

-SikaFume® a concrete additive of a new generation in powder form, based on Sika silica fume technology.

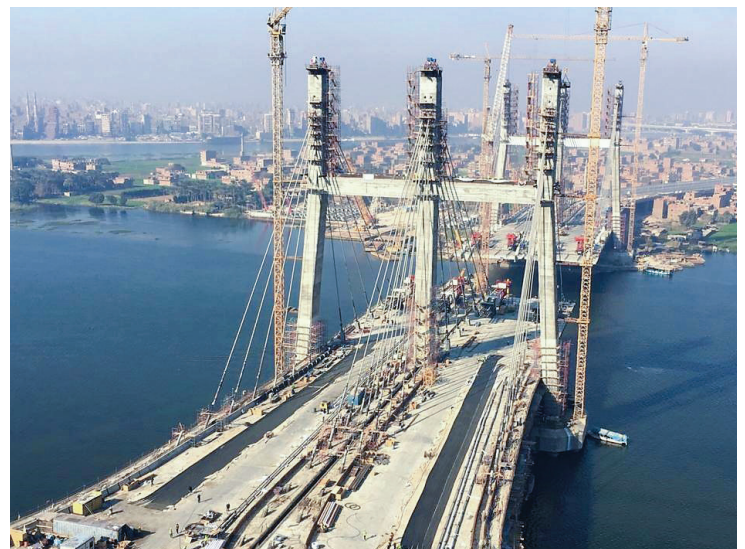
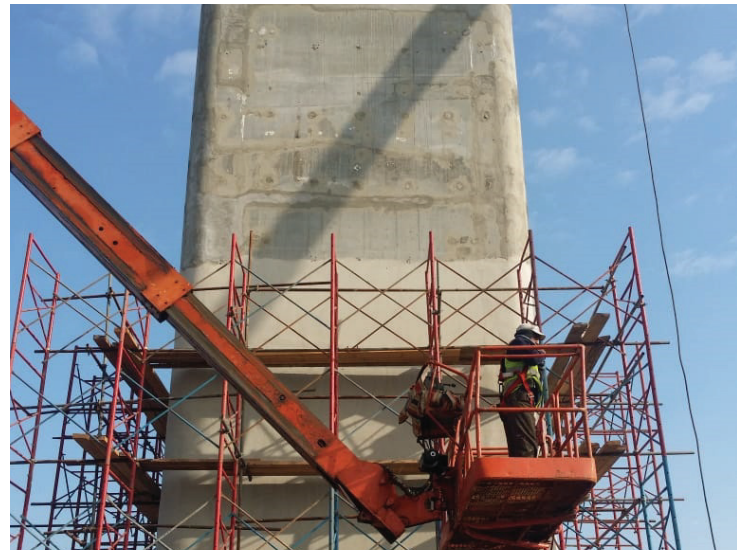
-Intraplast® Z expanding grout admixture suitable for use in the grouting Pre-stressed cable ducts.

### Products Delivered with quantity:

SikaViscocrete®- 3425	550 Tons
SikaFume®	1500 Tons
Intraplast® Z	50 Ton
SikaCrete®-114	1000 Ton
SikaRep®	600 Ton
SikaWall®-110 Cemputty	700 Ton
SikaGard®-550 W Elastic	200 Ton
Sikagard®-552 W Aquaprimer	60 Ton

## Why Sika:

- KOM approach with the Army.
- Sika Technical supports at the sites and during the project all different phases.
- Sika strong supply chain.
- Sika complete system and Huge References.
- Sika is a market leader in concrete admixture technology.



# ROD ELFARAG AXIS



## Project Participants:

- Owner: Army Engineering Authority.
- Main Contractor: Arab Contractor.
- Consultant: ACE : Arab Consulting Engineers ( Moharam Bakhoum ).

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