



SIKA AT WORK

WASTEWATER TREATMENT PLANT, SHANGHAI, CHINA

CONCRETE PROTECTION: Sikagard®-7000 CR

BUILDING TRUST



WATERPROOFING AND PROTECTION FOR AN INTEGRATED PLANT



PROJECT DESCRIPTION

Project name: Shanghai Chemical Industry Park, phase 5
Location: Shanghai, P. R. China

Shanghai Chemical Industry Park (SCIP) is one of the China's most heavily invested industrial projects specializing in the petrochemical and fine chemicals businesses. Jointly managed by Sino French Water, SCIP Development Company Ltd. and SCIP Investment Company Ltd, the consortium provides integrated water and wastewater treatment services to the 29.4 km² industrial park. In the development of their new phase 5 construction, SCIP called for anti-corrosion protection solutions for wastewater treatment facilities, including homogenization tanks, neutralizing tanks, anoxic ponds, aeration tanks, secondary sedimentation tanks and service reservoirs, that handle 50,000 tons of industrial sewage daily over a protection area.

PROJECT REQUIREMENTS

Original protection layer specified for the wastewater tanks design was done by acid resistant tiles. Unfortunately, acid resistance tiles faced huge difficulties when defects appeared and repair is required, as re-tiling process could be costly and time-taking. Another worry for SCIP Sino French Water Development was due to the corrosion protection application were scheduled during the rainy season. Constantly moist substrates will hinder the applications for both the acid resistance tiling and protective coating.

Any product name or reference reflects the Sika product name at the time of creation of this document and may differ from the product name or reference during past events.

Our most current General Sales Conditions shall apply. Please consult the most current local Product Data Sheet prior to any use.



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SIKA SOLUTIONS

Sikagard®-7000 CR, based on the latest Xolutec™ technology, is the ideal waterproofing and concrete protection solution for SCIP. Combining unique application and performance features to meet the challenges of harsh wastewater environments. Sikagard®-7000 CR facilitates high resistance against abrasion and biogenic sulphuric acid corrosion and can withstand severe conditions in pre-treatment and aeration tanks, digesters or the concrete infrastructures of wastewater treatment systems, that are subjected to several complex chemical corrosion processes and constant abrasion. Perfect solution for the industrial water and wastewater treatment facilities for SCIP.

CUSTOMERS BENEFIT

- Cost-saving as compared to conventional method using acid resistance tiling.
- Time-saving, applications unaffected by moist substrates.
- Fast return to service, as compared to fiber-reinforced polymer (FRP) and acid resistance tiling.
- Insensitive to moisture and tolerates a wide variety of site conditions, reducing potential for delays and failures.

PROJECT FACTS AT A GLANCE

The first project in China to use Sikagard®-7000 CR. 360° protection for extreme conditions – a holistic waterproofing and protective solution for SCIP's wastewater treatment facilities. 12,000 m² area protected by Xolutec's technology ensures longer maintenance cycles and lower life cycle costs.

PROJECT PARTICIPANTS

Project Owner: Shanghai Chemical Industry Park
Applicator/Contractor: Nanjing Chemical Construction Co., Ltd

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