

Project:

Shanghai Chemical Industry Park, phase 5

Location:

Shanghai, P. R. China

Project completed:

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Owner/s:

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Applicator/Contractor:

Nanjing Chemical Construction Co., Ltd.

Designer/Architect/Specifier:

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Market sector:

Water Management Industry

Products used & amounts:

MasterSeal 7000 CR

MasterSeal P 770

MasterSeal M 790

Total application area:

12,000m²

Shanghai Chemical Industry Park (SCIP), China

Waterproofing and protection for an integrated water supply and wastewater treatment plant



Our reference in Shanghai (China): inside of an aeration tank, part of the new integrated water and wastewater treatment services for SCIP

The background

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 29.4km² 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.

The challenge

Original protection layer specified for the wastewater tanks design was done by acidresistant 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.

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Shanghai Chemical Industry Park (SCIP), China

Waterproofing and protection for an integrated water supply and wastewater treatment plant



MasterSeal 7000 CR is available in 2 colors – red and grey, for easy identification from first and second coat event in environment with poor visibility.



MasterSeal 7000 CR can be applied easily, either by spray or roller.

Our solution

MasterSeal 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.

MasterSeal 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.

The customer's 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.

Projects facts at a glance (max. 800 characters)

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

Master Builders Solutions by MBCC Group

The Master Builders Solutions brand brings all of our expertise together to create chemical solutions for new construction, maintenance, repair and renovation of structures.

Master Builders Solutions is built on the experience gained from more than a century in the construction industry. The know-how and experience of a global community of construction experts form the core of Master Builders Solutions. We combine the right elements from our portfolio to solve your specific construction challenges.

Further information is available at:

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