

Liverpool Canal Dock Link Is Successfully Waterproofed

Waterproofing and waterstops keep water where it should be in transportation infrastructure.

Project	Liverpool Canal Dock Link
Client	British Waterways/Liverpool City Council
Main Contractor	Balfour Beatty Construction Ltd
Structural Consulting Engineer	Arup Partners Liverpool
GCP Solutions	PROCOR [®] waterproofing, SERVIBAND [™] flexible joint system, SERVITITE [™] AT 200/SERVISEAL [®] AT 240 waterstops



Project

Showcasing the city

In preparation for its year as the designated European Capital of Culture city, Liverpool embarked on a £17 million transportation infrastructure improvement that included construction of a new canal dock link.

The project reconnected the Leeds & Liverpool Canal to Liverpool's South Docks via Stanley Dock, allowing boats to travel past the world-famous Three Graces and into the Albert Dock. The canal project will be a major feature of the city, consisting of a waterway that includes two new locks, two new bridges, and three tunnels, which will allow access for visiting canal boats, water taxis, and boats for hire.

"The canal project will be a major feature of the city. "

Seeking a high-performance waterproof solution

The transportation infrastructure design required a system that would offer a waterstop system with water excluding and water retaining properties. This would keep water within the canal and ensure that water could not penetrate the concrete tunnel.

For the roof decks area, a high-performance waterproofing system suitable for efficient application over large areas was required. Additionally, a compatible joint system was also specified.

"The transportation infrastructure design required a system that would offer a waterstop system with water excluding and water retaining properties."

Meeting strict waterproofing standards

GCP provided an innovative waterproofing solution comprised of SERVITITE™ AT 200/SERVISEAL® AT 240. This high security PVC waterstop system with coextruded hydrophilic bulbs provides a unique combination of active and passive protection for joints in concrete. Developed for critical water retaining and water excluding structures, the AT system was installed in the tunnels to prevent water migration. Its hydrophilic properties, combined with its ability to act as a continuously active seal, made it a highly reliable solution for the strict requirements of the transportation infrastructure.

For waterproofing of roof decks, both PROCOR® Deck System 2 and SERVIBAND™ were applied. PROCOR® Deck System, a liquid applied system, overcame the issue of application over a large area, as it can be either spray or trowel applied. When used in conjunction with SERVIBAND™, which protects movement joints in concrete from water pressure, the PROCOR® Deck System provides continuous waterproofing.

Blue360SM Product Performance Advantage.

Because every project, large or small, deserves the best level of protection.

"Its hydrophilic properties, combined with its ability to act as a continuously active seal, made it a highly reliable solution for the strict requirements of the transportation infrastructure."

gcpat.com | North America Customer Service: +1 (877) 423 6491

GCP Applied Technologies Inc., 2325 Lakeview Parkway, Suite 400, Alpharetta, GA 30009, USA

GCP Canada, Inc., 294 Clements Road, West, Ajax, Ontario, Canada L1S 3C6

This document is only current as of the last updated date stated below and is valid only for use in the United States. It is important that you always refer to the currently available information at the URL below to provide the most current product information at the time of use. Additional literature such as Contractor Manuals, Technical Bulletins, Detail Drawings and detailing recommendations and other relevant documents are also available on www.gcpat.com. Information found on other websites must not be relied upon, as they may not be up-to-date or applicable to the conditions in your location and we do not accept any responsibility for their content. If there are any conflicts or if you need more information, please contact GCP Customer Service.

Last Updated: 2025-05-13

gcpat.com/about/project-profiles/liverpool-canal-dock-link-successfully-waterproofed