



SIKA AT WORK

MOUNTBLOW BRIDGE, CLYDEBANK

REFURBISHMENT: Sika® MonoTop® and Sika® Ferrogard®

BUILDING TRUST



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SIKA CONCRETE REPAIR SYSTEM IS KEY TO LONG LIFESPAN OF CLYDEBANK FLYOVER.

With years of carbonation and chloride attack, the steel reinforcement of the concrete Mountblow flyover in Clydebank was beginning to suffer from corrosion causing the concrete to crack and spall. In need of a proven and reliable method of refurbishment and to ensure the future structural integrity of the bridge, West Dunbartonshire Council specified a concrete repair system from global building product manufacturer, [Sika](#).

Preventing the corrosion of steel reinforcement in concrete is essential. Consisting of high performance mortars, anti-corrosion agents and sealants, [Sika's](#) proven concrete repair system ensures that any structure will be able to stand the rigours of usage for years into the future.



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Having been approached directly by the Roads and Transportation Division of [West Dunbarton Council](#), Sika was involved with the project from the start. After meeting with the council's engineers, Sika's technicians analysed the problems facing the bridge and specified a solution – meeting the council's brief for a cost effective, reliable and long lasting system. Sika was even able to recommend possible contractors for the scheme.

[MacKenzie Construction](#) carried out over 500m² of concrete repairs across the structure of the bridge which included the soffit, columns, deck and abutment walls. As the bridge was a key part of Clydebank's road infrastructure, the project was considerably undertaken so it could remain open for the duration of works.

Key to Sika's concrete repair system is that it can be quickly applied meaning that the disturbance of renovation is brief and need not be repeated regularly.

The concrete repairs were conducted using cementitious polymer modified [Sika® MonoTop®-610/-615](#). First a layer of [Sika® MonoTop®-610](#) is applied which inhibits corrosion and improves the lifespan of steel reinforcements. It also acts as a bonding bridge for [Sika® MonoTop®-615](#) high build repair and re-profiling mortar.

The entire reinforced concrete sections of the bridge were then covered by a spray applied coat of [Sika® Ferrogard®-903](#). A crucial part of Sika's concrete repair system, this innovative liquid inhibits corrosion, delaying its start and slowing its rate – extending the maintenance and service life cycles of reinforced concrete for fifteen years. Easily and economically applied to surfaces, it's a simple way to protect reinforced structures. As it does not have an adverse effect on concrete, it is frequently specified on valuable structures and heritage projects.

Sika's entire range of [concrete repair products](#) is certified to BS EN 1504, the European standard for concrete repair. This accreditation applies not only to the production quality of the products themselves but also to the guidance issued with them. The accreditation ensures users of the high quality nature of Sika's concrete repair systems.

Longstanding concrete renovation is essential for a variety of public and private structures. For its effectiveness, Sika's concrete repair system has ensured simply applied, economical and longstanding preservation of the flyover. It stands as an example of why Sika's innovative products are a favourite of specifiers and operatives the world over.

For further information call 0800 112 3863.