

 **Sika MonoTop<sup>®</sup>**  
Concrete Repair

# REFURBISHMENT THE COMPLETE RANGE OF CONCRETE REPAIR MORTARS

# Sika MonoTop®

THE GO TO SOLUTION FOR CONCRETE REPAIR AND A BENCHMARK FOR QUALITY IN THE CONSTRUCTION SECTOR

For decades, Sika MonoTop® has been used on many refurbishment projects around the world from football stadiums, to bridges supporting our infrastructure through to tunnels and the buildings in which we live and work.

Given the huge amount of concrete structures that surround us day to day it is easy to take concrete for granted and how it enables us to live the lives we do in our evolving urban landscapes. Just like us – concrete needs to be maintained – it is affected by the stresses and strains of everyday life.

Refurbishment of buildings and infrastructure in construction is an important process – it helps us to provide a **SUSTAINABLE APPROACH TO BUILDING** – prolonging the life of a structure and preventing demolition and reconstruction. The choice of the appropriate rehabilitation strategy can also significantly improve the overall performance of a structure.



## REFURBISH | RENEW



The complete Sika MonoTop® range of concrete repair mortars, which has been on the market for 30 years, has been adapting both to new regulations and market requirements, facilitating logistics and helping to reduce the environmental footprint.

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# GENERAL REPAIR

THERE IS A PRODUCT IN THE Sika MonoTop® RANGE FOR ANY CONCRETE REPAIR PROJECT.

Please check out the range of Sika MonoTop® Mortars for all your general purpose repair projects below:



## Sika MonoTop®-115 GP

### Cementitious General Purpose Concrete Repair Mortar

Sika MonoTop®-115 GP is a 1-component cement based polymer modified general purpose repair and reprofiling mortar, meeting the requirements of Class R3 of BS EN 1504-3.

**Used:** for repairing all types of structures not exposed to water submersion, including overhead and vertical repairs; hand applied repairs; spray applied repairs; for exterior and interior use; in place of R1 and R2 mortars.

- Pre-bagged for quality
- High build
- Low wastage
- Just add water to amount required
- Contains no chloride admixtures



## Sika MonoTop®-610

### Cementitious Steel Reinforcement Primer and Bonding Bridge

Sika MonoTop®-610 is a 1-component cementitious, polymer modified primer for reinforcement protection, and also a bonding bridge for MonoTop® concrete repair mortars.

**Used:** for bonding MonoTop® concrete repair mortars to existing cementitious or steel substrates and providing additional corrosion protection to reinforcement in MonoTop® concrete repair mortars, especially in areas of low concrete cover and in the presence of chlorides.

- Only requires mixing with water
- Adjustable consistency
- Active corrosion inhibitors for added protection
- Sprayable by wet spray method
- Suitable for drinking water contact



## Sika MonoTop®-612

### Wet Spray Repair Microconcrete

Sika MonoTop®-612 is a cement-based, 1-component low permeability repair microconcrete, containing silica fume and polymer, meeting the requirements of Class R4 of BS EN 1504-3.

**Used:** for repairing all types of structures, including horizontal, vertical and overhead repairs; hand applied repairs; spray applied repairs; for exterior and interior use; in place of R1, R2 & R3 mortars.

- Compatible with Sika® FerroGard® corrosion inhibitors
- Low shrinkage with adjustable consistency
- Suitable for drinking water contact
- Easy to mix and apply
- Pre-bagged for quality, just add water

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## Sika MonoTop®-614F

### R4 Flowable Cementitious Repair Mortar

Sika MonoTop®-614F is a cement based, 1-component flowable repair mortar (High Flow), containing shrinkage compensators and high range water-reducing agents, meeting the requirements of Class R4 of BS EN 1504-3.

**Used:** for horizontal or vertical repairs; bridges; marine structures; tunnels; buildings; fire damaged structures; for exterior and interior use; in place of R1, R2 and R3 mortars.

- One component, ready to use with low shrinkage
- Repair depths upto 150 mm in one application
- Can be poured or pumped
- Overcoatable with Sika reprofiling/levelling mortars and coatings
- High mechanical and good flow properties



## Sika MonoTop®-615

### R3 Cementitious High Build Concrete Repair Mortar

Sika MonoTop®-615 is a 1-component cement based polymer modified high build repair and reprofiling mortar, meeting the requirements of Class R3 of BS EN1504-3.

**Used:** for repairing all types of structures, including overhead and vertical repairs; hand applied repairs; spray applied repairs; for exterior and interior use; in place of R1 and R2 mortars.

- Sprayable by wet spray method
- High build
- Low wastage



## Sika MonoTop®-620

### Cementitious Smoothing Coat/Levelling Mortar and Pore Sealer

Sika MonoTop®-620 is a 1-component cementitious polymer modified mortar, for exterior and interior use.

**Used:** as a concrete pore sealer/levelling mortar/smoothing coat, repairing minor defects, as a thin layer render, repairing pores and honeycombed concrete.

- Pre-bagged for quality
- Just add water
- Compatible with Sika® FerroGard® corrosion inhibitors
- Compatible with SikaTop® and MonoTop® mortars
- Overcoatable with Sikagard® coatings
- Sprayable by wet spray method



## Sika MonoTop®-630 Rapid

### R4 Fast Setting Cementitious Repair Mortar

Sika MonoTop®-630 Rapid is a 1-component fast setting cementitious repair mortar, meeting the requirements of Class R4 of BS EN 1504-3.

**Used:** for repairing all types of structures, including overhead and vertical repairs; hand applied repairs; floor slabs and car park decks; for exterior and interior use; in place of R1, R2 and R3 mortars.

- Pre-bagged for quality, just add water
- High early strength with rapid setting
- Non corrosive to steel
- Can be overcoated
- Contains no chloride admixtures

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# ENHANCED PERFORMANCE

ALL-IN-ONE REPAIR MORTAR FOR SIMPLE, COST-EFFECTIVE  
EMBEDDING OF GALVANIC ANODES:



## **Sika MonoTop®-412 N** **R4 Concrete Repair Mortar**

Sika MonoTop®-412 N is a 1-component, fibre reinforced, low shrinkage repair mortar meeting the requirement of class-R4 of EN 1504-3.

**Used:** Suitable for restoration work, repair of spalling and damaged concrete in buildings, bridges, infrastructure and superstructure works. Used for structural strengthening -increasing the bearing capacity of the concrete and preserves / restores passivity).

- Sulphate resistant
- For hand or machine application
- Easy to apply
- Application up to 50 mm in 1 layer
- Very low shrinkage behaviour
- Does not require a bonding primer even when manually applied
- Low permeability
- A1 fire rating
- Galvashield compatible



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# INNOVATIVE SPECIALIST SOLUTIONS

DESIGNED TO REDUCE DOWNTIME FOR WASTEWATER  
INFRASTRUCTURE REFURBISHMENT PROJECTS



## COMBATING HYDROGEN SULFIDE CORROSION

Sika® MonoTop®-4400 MIC is the only total calcium aluminates mortar capable of withstanding the long-term corrosive conditions prevalent in wastewater infrastructures such as sewer pipes, manholes and water treatments.

## THE APPLICATION

Sika® MonoTop®-4400 MIC contains 100% calcium aluminates chemistry, vital ingredient which induces a 'bacterio-static effect' to inhibit acid generation - in concrete, steel and cast iron - at source.

Sika® MonoTop®-4400 MIC offers a fast-setting, cost-effective alternative to infrastructural repair strategies treated with acid resistant materials such as organic resin and fibre-glass inserts which continue to allow acidophilic bacteria to

breed and grow. It also provides rock-solid structural rehabilitation within a few hours to help minimise closure times of the wastewater system it's applied to.

## SOLUTION FOR CORROSION IN SEWERS



Pipes



Chambers



Tanks



Manholes

## SIKA AT WORK

**Sika® MonoTop® 4400MIC ENSURES WASTEWATER WORKS CONTINUE TO FLOW IN NORTH EAST PLANT SERVING MILLIONS OF PEOPLE.**

An upgrade at the plant looking at sewer pipes, chambers and tanks required the application of a proven corrosion management system to improve long-term performance and structural integrity. MonoTop® 4400MIC's rapid-apply qualities, coupled with its supreme curing time, meant specialist contractors completed the project in three days, with the plant remaining fully operational at all times.



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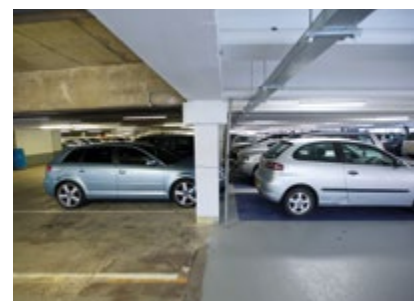
# TOTAL CORROSION MANAGEMENT

A FULL RANGE CONCRETE REPAIR AND PROTECTION PRODUCTS FROM SIKA

Sika supply a range of products to repair and protect concrete to prolong the life of structures, in accordance with EN 1504 regulation.

Sika is considered to be the industry leader on a worldwide basis in concrete repair, protection and refurbishment. Many years of research and development plus decades of practical experience has enabled Sika to provide systems to restore and rehabilitate concrete structures that have deteriorated due to corrosion, structural damage, water infiltration, freeze/thaw, seismic activity, reactive aggregates, and others.

Sika is able to provide you with special admixtures for site batch mortars, pre-bagged repair mortars and a wide range of concrete protective solutions.



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# SIKA FULL RANGE SOLUTIONS FOR CONSTRUCTION:



LIQUID APPLIED ROOFING



SINGLE PLY ROOFING



CONCRETE



CONCRETE REPAIR



STRUCTURAL STRENGTHENING



WATERPROOFING



JOINT SEALING



FAÇADE STRUCTURAL ADHESIVES



FLOORING



INDUSTRY



DISTRIBUTION



BUILDING TRUST

## WHO WE ARE

Sika Limited and Sika Ireland Limited are part of the global Sika Group, specialising in the manufacture and supply of chemical based products. Sika have a leading position in the development and production of systems and products for bonding, sealing, damping, reinforcing, and protecting in the building sector and the motor vehicle industry. Sika has subsidiaries in 101 countries around the world and manufactures in over 200 factories. With more than 20,000 employees Sika generates annual sales of CHF 7.09 billion (£5.45bn). We are also committed to providing quality, service, safety and environmental care.

In the UK and Ireland, we provide market-leading solutions for concrete, waterproofing, roofing, flooring, refurbishment, sealing & bonding, and industry, and have manufacturing sites in Welwyn Garden City, Preston, Leeds and Dublin with more than 870 employees and a turnover of more than £260 million.

The information, and, in particular, the recommendations relating to the application and end use of Sika® products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. Please refer to our homepage [www.sika.co.uk](http://www.sika.co.uk) for our current standard terms & conditions applicable to all orders. Users should always refer to the most recent issue of the Product Data Sheet for the product concerned, copies of which will be supplied on request.



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