



# Fosroc Solutions for Car Park Decking

[www.fosroc.com](http://www.fosroc.com)



*constructive solutions*

# ABOUT FOSROC INTERNATIONAL

Since the company's beginnings over 80 years ago, Fosroc has developed into an International leader in delivering Constructive Solutions for projects across a broad range of market segments including transport, utilities, industrial and general buildings.

Fosroc's commitment to customer service and technical support is second to none. We work closely with architects, structural engineers, contractors and owners to best understand their requirements. Together we can develop a bespoke solution for a construction project, adding value and becoming more than just a materials supplier, but a solution provider.

Fosroc has an extensive network of offices and manufacturing locations across Europe, the Middle East, Africa, India, North, South and East Asia, and is further represented in other regions across the world by distributor and licensee partners.

Selecting from the full portfolio of Fosroc products and services and integrating expert technical support, world class customer service and innovation, Fosroc goes beyond just product selling to ensure that we partner with our customers to deliver complete constructive solutions.

- > Admixtures
- > Adhesives
- > Protective Coatings
- > Concrete Repairs
- > Industrial Flooring
- > Grouts & Anchors
- > Joint Sealants
- > Surface Treatments
- > Grinding Aids
- > Waterproofing



## FOSROC DELIVER SOLUTIONS NOT JUST PRODUCTS

### CAD Details

A library of standard CAD details are available, bespoke CAD details can be created for your specific project

### Project Specifications

Dedicated specification managers on hand to assist with correct system choices and tailored solutions

### Site Support

Expert product and application support made available from our specialist teams.

### Seminar & Training

Comprehensive programme of seminars and training courses designed to expand and reinforce your knowledge.

Leader in delivering  
Constructive Solutions  
**Worldwide!**



# THE FOSROC SOLUTION

For owners – Fosroc systems enhance and protect car park structures at the same time reducing maintenance costs and improving customer satisfaction and safety.

For design consultants – Fosroc provides tailored solutions based on a single source of supply, backed by expert technical assistance at design stage and even throughout the project.

For contractors – Fosroc provides cost-effective, durable and user friendly solutions for decks, soffits and walls, backed by an excellent site support.

Fosroc recognises the demands of owners, design consultants and contractors and has developed an innovative range of concrete protection systems to safeguard multi-storey car park structures, providing a sustainable and aesthetically pleasing solution.

**A total solution** Fosroc can provide a tailored solution to suit project needs including deck waterproofing, crack and concrete repairs, joint sealants, anti-carbonation protective coatings and structural strengthening products.

**Low maintenance** Fosroc protection systems are designed to be easily applied, yet provide a high-performance solution that requires minimum maintenance.

**Partnership and support** Fosroc can provide presentations, seminars and project demonstrations for our protection systems. Project-specific specifications, technical assistance and method statements can ensure that the best solution is chosen.



## Multi-storey and underground car parks

- ▶ Exposed decks
- ▶ Intermediate decks
- ▶ Basement decks
- ▶ Ramps
- ▶ Turning bays
- ▶ Pedestrian walkways
- ▶ Colour-coded bays
- ▶ New and existing structures

# FOSROC CAR PARK DETAILING

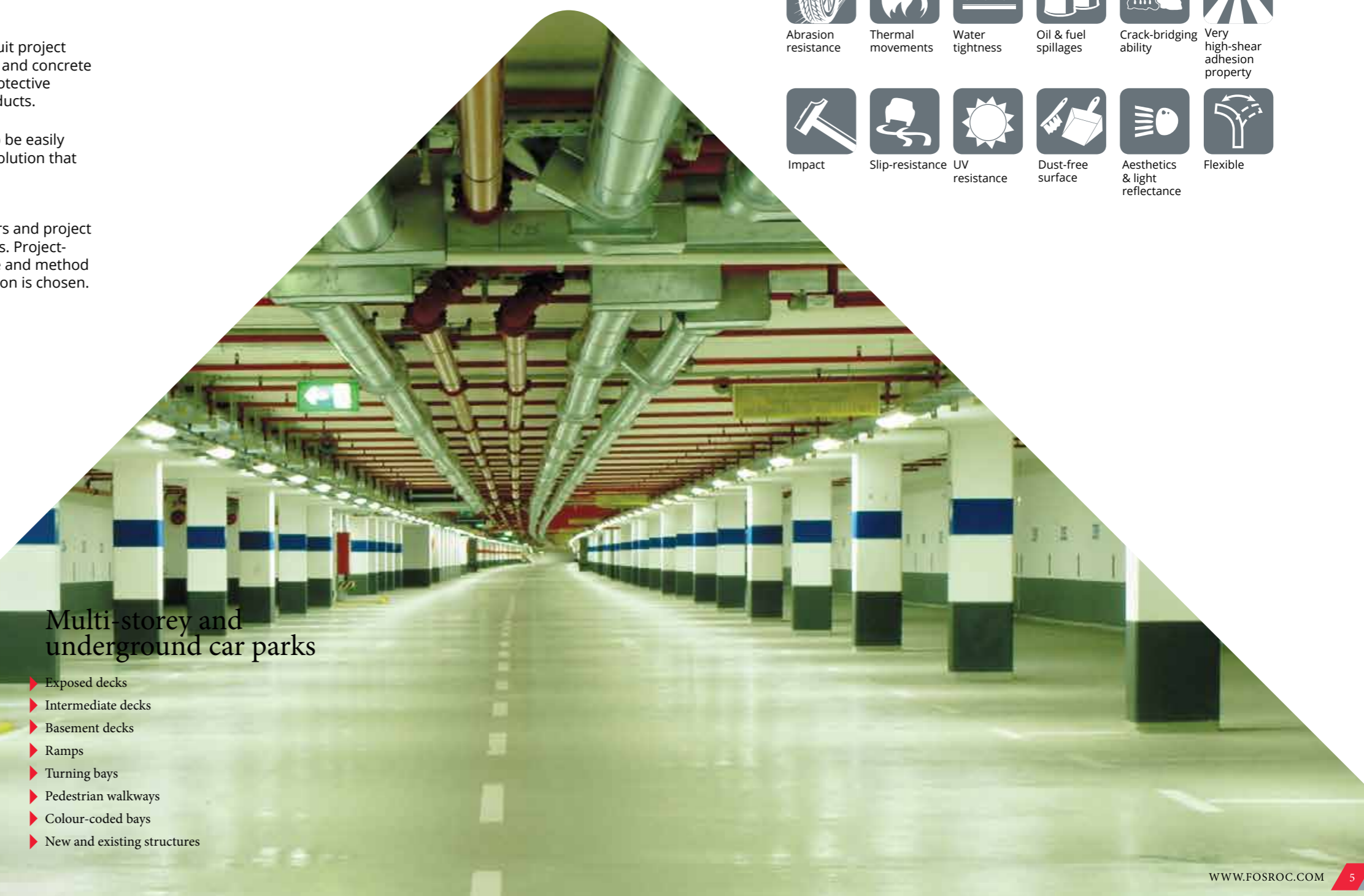
- Roof decks
- Intermediate decks
- Basement car park
- Ramps
- Pedestrian walkways

The successful protection of a car park structure depends on selection of suitable products to provide the optimally designed performance, which can be supported by Fosroc with its world-class extensive range of product portfolio.

Right specification needs to address the performance requirements of specific areas to balance durability and downtime against cost. Fosroc brings to the fore its knowledge and experience of over five decades in providing solutions through best-suited high performance products for car park deck solutions.

### Performance criteria

 Abrasion resistance	 Thermal movements	 Water tightness	 Oil & fuel spillages	 Crack-bridging ability	 Very high-shear adhesion property
 Impact	 Slip-resistance	 UV resistance	 Dust-free surface	 Aesthetics & light reflectance	 Flexible





# ROOF DECKS

Roof car park deck protection designed with flexible system to protect against ingress of water, withstand thermal movements, UV resistance, high-abrasion and slip-resistance for safe vehicular traffic movements.

## Performance criteria

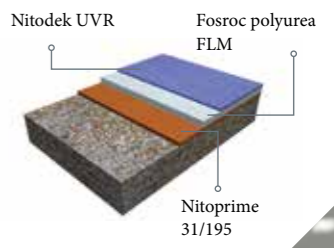
 Abrasion resistance	 Thermal movements	 Water tightness	 Oil & fuel spillages	 Crack-bridging ability	 Very high-shear adhesion property
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# FOSROC SYSTEMS

## Polyurea system – Fosroc Polyurea FLM

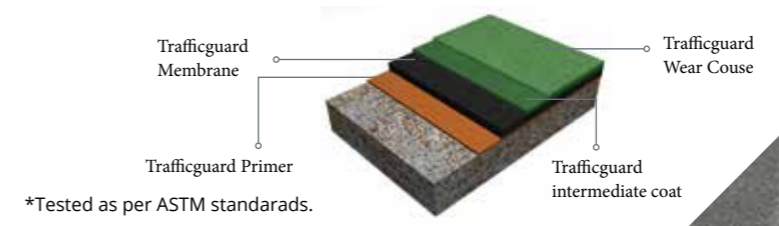
Fosroc polyurea FLM is a new technological CPD solution with excellent crack-bridging ability with high-impact resistance to perform both as waterproofing and high-abrasion resistant deck coating. Fosroc Nitodek UVR/Trafficguard WC top coat finish will provide anti-skid finish sealer coat.

Roof decks	Primer/Body coats	Top coat	Particulars
Fosroc Polyurea FLM system Flexible, waterproof, crack-bridging, slip- and wear-resistant polyurea system. Service temp: -10°C and above	Nitoprime 31/195 Solvent-free, high-build epoxy primer Fosroc polyurea FLM Spray applied pure polyurea 2.0 to 2.5 mm	Nitodek UVR PU anti-slip finish coating 0.5 mm	<ul style="list-style-type: none"> <li>• Anti-slip grain finish</li> <li>• 2.5 to 3.0 mm thick</li> <li>• Parking space and carriage way</li> </ul>



## Fosroc polyurethane systems – Trafficguard UR 100\*

Roof decks	Primer/Body coats	Top coat	Particulars
Trafficguard UR 100 system Flexible, waterproof, crack bridging, slip- and wear-resistant PU system. Service temp: 0°C and above	Trafficguard Primer Solvent-free, high-build primer Trafficguard Membrane Roller applied PU waterproofing membrane 1 to 1.5 mm thick	Trafficguard intermediate coat PU blend flexible coating 0.4 mm Trafficguard Wear Course Aliphatic PU top coating 0.3 to 0.4 mm	<ul style="list-style-type: none"> <li>• Anti-slip grain finish</li> <li>• 2.0 to 2.5 mm thick</li> <li>• Parking space and carriage way</li> </ul>

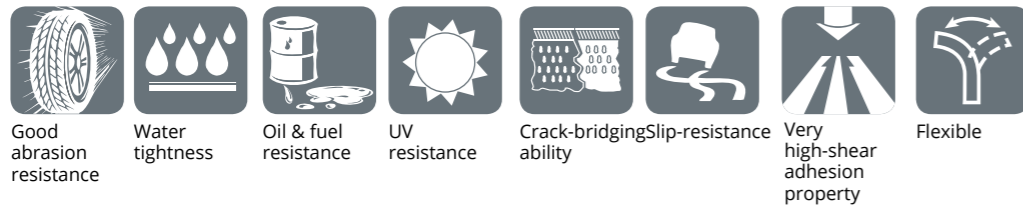


\*Tested as per ASTM standards.

# RAMPS

Ramp areas need to be designed against skidding with high-abrasion resistance for the safety and durability of the vehicle movements on ramps while entering or exiting the parking areas.

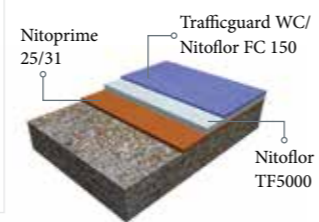
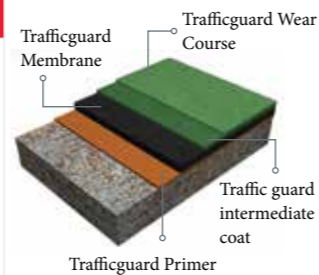
## Performance criteria



# FOSROC SYSTEM

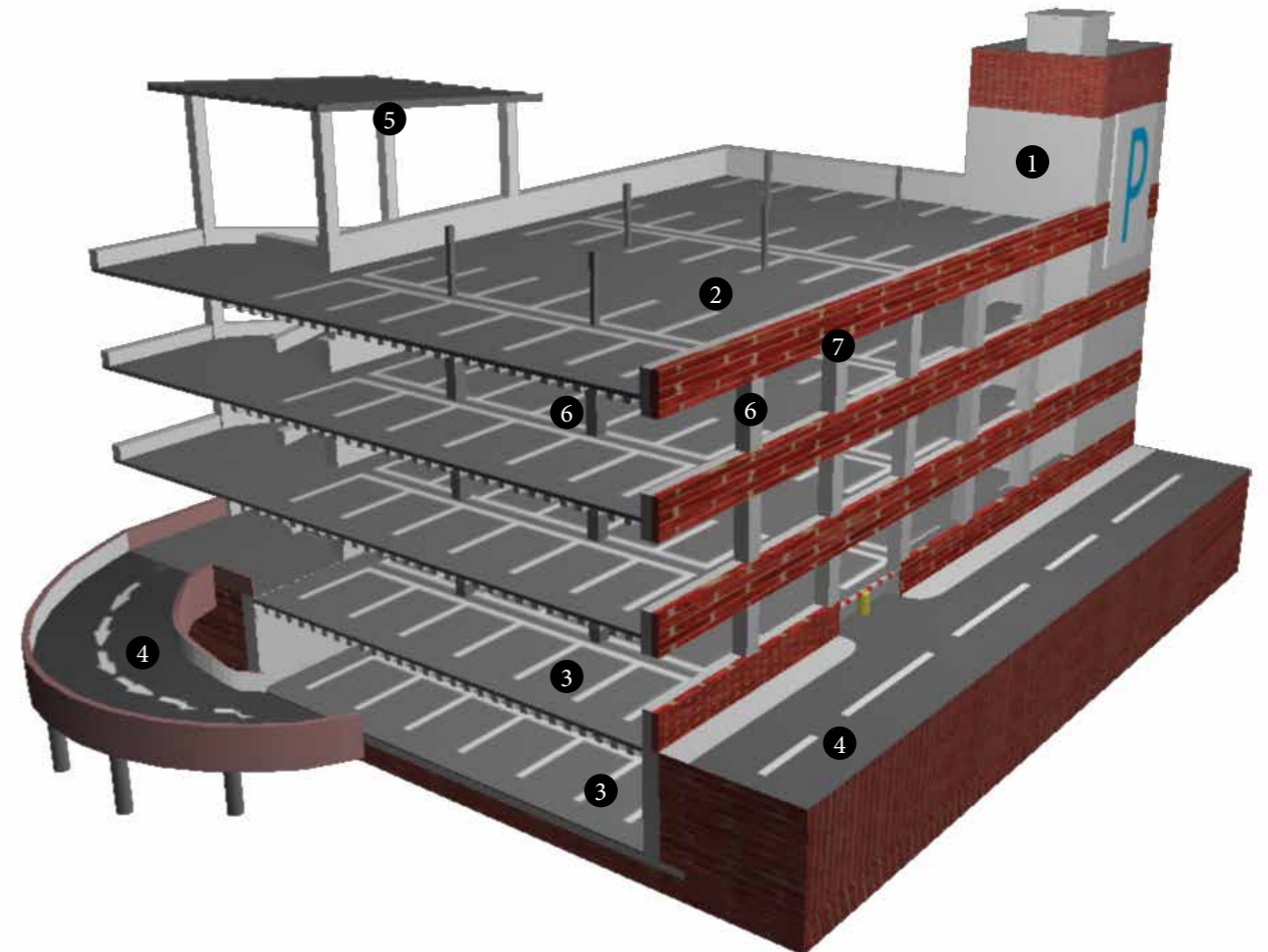
- Trafficguard UR 100 – PU-based multi-layer system
- Nitoflor TF 5000 with sealer coat Trafficguard WC/Nitoflor FC 150 – Epoxy high-strength trowel applied screed over coated with aliphatic PU/Epoxy coating

Ramp coating system	Underlay/Primer	Top coat	Particulars
Trafficguard UR 100 Flexible, slip- and wear-resistant PU system	Trafficguard Primer Solvent-free high-build primer  Trafficguard Membrane Roller applied PU waterproofing membrane 1 to 1.5 mm thick	Trafficguard intermediate coat High build PU blend flexible coating 0.4 mm  Trafficguard Wear Course PU top coating 0.3 to 0.4 mm	<ul style="list-style-type: none"> <li>• Textured roller finish</li> <li>• 2.0 to 2.5 mm thick</li> <li>• Ramp coating</li> </ul>
Nitoflor TF 5000 with sealer coat Non-Flexible, Impervious, slip- and wear-resistant epoxy trowel applied screed system	Nitoprime 25/31 Solvent-free or solvent-based epoxy primer  Nitoflor TF5000 Heavy duty 5mm thick, abrasion resistant poxy floor screed	Trafficguard WC Roller applied aliphatic PU coating at 0.3 to 0.5 mm thick or  Nitoflor FC 150 Solvent-free high-build roller applied coating 0.5 mm	<ul style="list-style-type: none"> <li>• Anti-slip aggregates finish</li> <li>• 5.3 to 5.5 mm thick</li> <li>• Covered ramp areas</li> </ul>



# FOSROC TOTAL PROTECTION SOLUTIONS FOR CAR PARK DECK

Fosroc partners with customers, specifiers and structural consultants by providing total solutions for new and refurbishment car park structure.



1. Dekguard E2000 – elastomeric, water-based protective coating
2. Fosroc polyurea FLM or Trafficguard UR 100
3. Nitoflor FC 150/500 system with or without underlay Nitoflor EU 5 or Nitoflor Hardtop (NF)/ Nitoflor Hardtop with Nitoflor PUW100/Nitoflor FC 150
4. Trafficguard UR 100 or Nitoflor TF 5000 with Trafficguard WC or Nitoflor FC 150 (covered areas)
5. Brudhbond series/Proofex series/Fosroc polyurea waterproofing system
6. Nitowrap system for structural strengthening and increasing load-bearing capacity
7. Nitoseal and Thioflex – MS, PU and polysulphide-based sealants



Fosroc offers a full range of construction chemical solutions, helping to protect structures throughout the world. Please refer to our brochures, which include:



Details of your local Fosroc office can be found at [www.fosroc.com](http://www.fosroc.com)

**Important Note**

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.



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