



# Injection Resins In Accordance with BSEN1504

Leak Sealing  
Soil Stabilisation  
Slab Lifting



## About Us

**As part of USL Group, Nufins has supplied materials to numerous projects since 1966 including power stations, water treatment schemes, ports, airfields, highways, bridges and tunnels. We take innovation seriously and we believe that this is necessary for a manufacturing company to prosper in our highly competitive industry. Nufins' investments in our laboratory and production facilities have enabled the development of innovative products, thereby helping to improve effectiveness and efficiency on construction sites.**

Nufins has a global reputation for manufacturing and supplying high quality specialist products for highway maintenance, waterproofing, structural grouting, joint-sealing, corrosion control, concrete repair and protective coatings for concrete structures. For further information visit our interactive website [www.nufins.com](http://www.nufins.com)

### Industry Accreditation

Nufins recognises the importance of membership to industry-affiliated specialist organisations, allowing us to keep in close contact with latest industry developments. We work in partnership with architects, consultants and contractors to improve product technology, quality and performance, thus benefiting all stakeholders in all aspects of the construction industry.

Materials are manufactured under the ISO 9001 Quality Management Scheme. All products for use in the repairs and protection of concrete structures are tested in accordance with BS EN 1504 and carry the CE label, thus providing Nufins' customers with confidence in the quality and reliability of our specialist product range.



### OUR COMPLETE RANGE

- Concreting Chemicals
- Concrete Repair & Technical Mortars
- Concrete Protection
- Structural Grouting & Anchoring
- Bedding Mortars & Streetscape
- Joint Sealants & Fillers
- Industrial Flooring
- High Friction Surfacing &
- Waterproof Coatings
- Leak Sealing & Resin Injection
- Adhesives & Cleaning
- Surface Mounted Tactile Paving
- Accessories



# Product Application Guide



The product selector below highlights the range of options available in the Injection Resins range. The direct application should be validated with Nufins technical team to ensure the correct product is selected for your project.



Prime Flex 900 XLV

Prime Flex 910

Prime Flex 920

Precision Lift™

SoiLok

|   |    |    |    |    |    |
|---|----|----|----|----|----|
| Meets the requirements of BS 6920 for potable water |    |    | P4 |    |    |
| Leak seal - Hairline cracks                         | P4 |    | P4 |    |    |
| Leak seal - Gushing leaks                           |    |    | P4 |    |    |
| Slab lifting / Stabilisation                        |    |    | P6 | P6 | P6 |
| Void filling  |    |    | P4 |    |    |
| Soil Stabilisation                                  |    | P5 | P5 |    | P5 |

EN1504-5

Part 5: Concrete Injection



# Leak Sealing Solutions



Nufins provide chemical grouts for sealing leaks in a variety of structures. Our combination of superior product performance and sound technical support ensure successful installation.

## Not all leaks are the same...

There are many types of leaks, and we offer specific solutions to address each of them. We have a full range of products to seal leaks of all types and sizes. These products range from cutting-edge acrylate resins to hydrophilic and hydrophobic polyurethane grouts. Let us maximise your efficiency: one of our technical consultants can advise you on the best product and approach for your particular application.



## Product Considerations

There are several factors to consider when choosing how to seal a leak, including:

- Volume of leak, weeping or gushing
- Size of crack or defect
- Accessibility of the site
- Environmental conditions
- Expansion rate, set time, and viscosity of the grout
- Physical properties of reacted grout

### Applications:

- Treatment Plants
- Manholes
- Culverts
- Leaking Dams
- Underground Walls
- Car Parks
- Tunnels

Nufins Injection Resins meet the requirements of **BS 6920** for contact with drinking water, making them ideal for use in water treatment and storage structures. The eco-friendly designation also makes these products ideal for application on seawalls and near wetlands or other environmentally sensitive areas.

### Products

- Prime Flex 920
- Prime Flex 900 XLV
- Prime Kat (Catalyst for 910 & 920)
- Kick Fast (Catalyst for 910 & 920)
- Oakum

EN1504-5

Part 5: Concrete Injection





# Soil Stabilisation Solutions



Well compacted soils provide a foundation, upon which structures perform. Decomposing soils, erosion, freeze-thaw cycles, and groundwater migration can break this foundation. This is the root cause for the damage or failure of structures from buildings to highways.

Stabilising soil can be done without major excavation. Injecting polyurethane chemical grouts and acrylate resins into loose or less dense soils, voids, pores and fissures will strengthen the earthen substrate and provide watertight encapsulation.

Nufins manufacture soil stabilisation solutions including **Prime Flex** polyurethane foams and gels.

The alternative solution is often repair or replacement that can be expensive and might not be feasible because excavation is impossible or too disruptive.



**Benefits** of using chemical grouts versus substrate replacement or excavation repair:

- Faster
- Less disruption
- Safer
- Stops water migration
- Minimal area needed to stage equipment and material
- Usually less expensive
- Low environmental impact
- Permanent

## Applications

- Bridges & Highways
- Railway tracks & stations
- Lift pits
- Tunnels
- Catch basins
- Sewage pipes
- Dams
- Driveways, patios, porches & walkways
- Seawalls & pools
- Culverts
- Airport runways
- Containment bunds
- Foundations
- Warehouses

## Products

- Prime Flex 910
- Prime Flex 920
- SoiLok
- Prime Kat (Catalyst for 910 & 920)
- Kick Fast (Catalyst for 910 & 920)

EN1504-5

Part 5: Concrete Injection



# Slab Lifting Solutions



Concrete lifting has been done for decades with a technique called mudjacking or slabjacking, traditionally undertaken by pumping a cementitious material through holes drilled in the slab. While this method is sometimes the right choice, there are factors that often make slab lifting with polyurethane foams a better option.

Injecting structural polyurethane foam into the voids beneath concrete slabs can stabilise them without excavation or the added weight of cement, which can aggravate an existing soil settlement issue.

Our **Precision Lift™** products are polyurethane foams that lift and support slabs, stairs, footings, or foundations, putting them back to their original position.

## Precision Lift™ foams are the best option when:

- Access to the site is difficult
- Added weight of concrete would further compact the soil
- Added weight of concrete would stress surrounding below-grade structures
- Rapid return to service is required
- Small scale jobs are not suitable for mudjacking operations
- Maintaining uniform aesthetic appearance of the concrete is wanted or needed - only small holes required to inject **Precision Lift™** foams

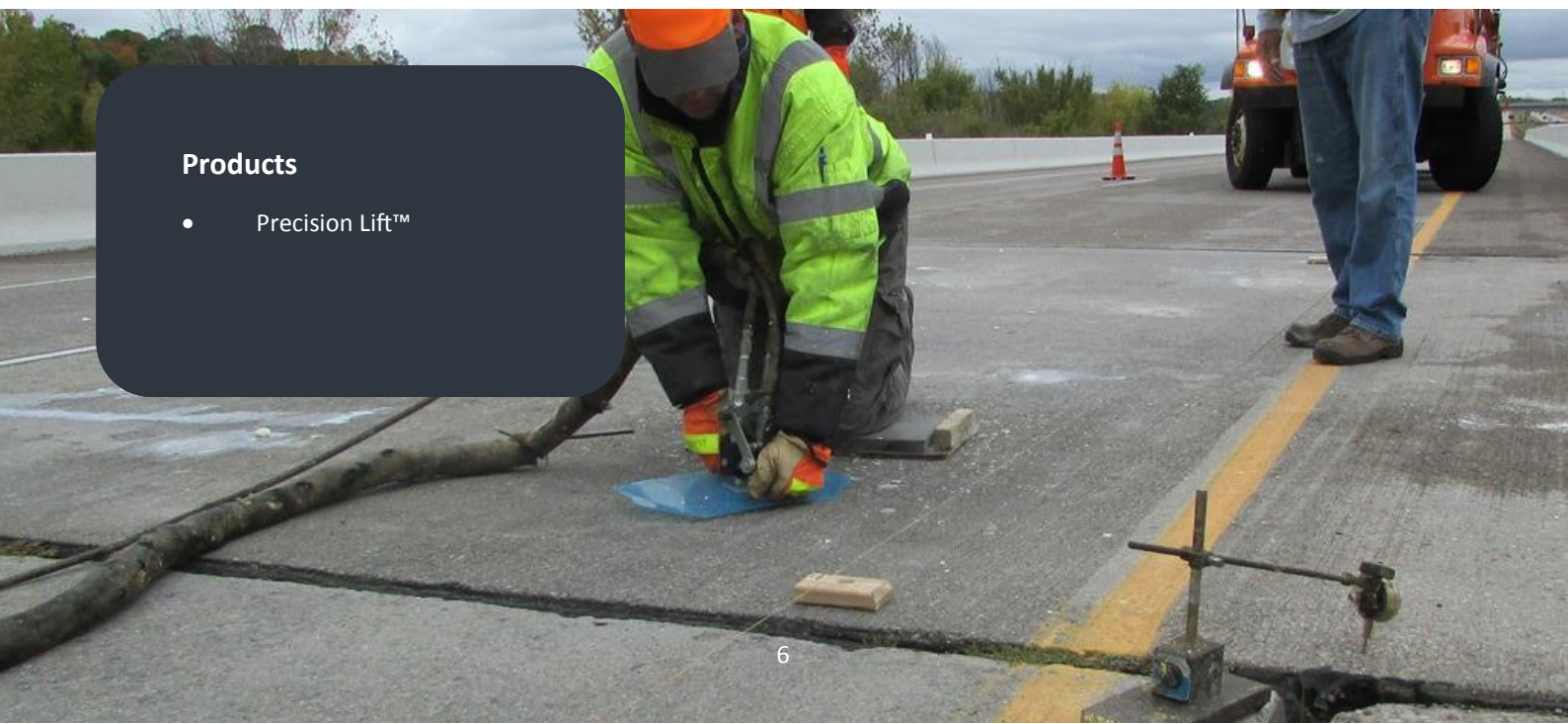


## Applications:

- Bridges & Highways
- Tunnels
- Catch basins
- Driveways, patios, porches & walkways
- Culverts
- Airport runways
- Warehouses

## Products

- Precision Lift™





# Market Sectors



Nufins products can be used in various applications; we can provide multiple solutions to the following sectors.

## Water Treatment



- Seal leaking joints, stop gushing leaks and fill voids behind **chambers**.
- Protect **water treatment plant tanks** from corrosion with coatings.

## Marine and Waterways



- Seal leaks, stabilise soils and fill voids behind **seawalls** and **bulkheads**.
- Seal leaks, stabilise soils, fill voids and repair joints on **culverts**.
- Apply waterproof coatings under **water features**.

## Car Parks



- Apply waterproof coatings, seal leaks & joints.
- Inject epoxy resin for structural crack filling.
- Seal leaks, fill voids, or stabilise soils behind underground **structures** and **lift pits**.

## Transport



- Repair **bridge decks**, **airport runways** and **marine ports**.
- Stabilise soils beneath concrete panels.
- Waterproof, seal active leaks, and fill voids behind **tunnels** and **culverts**.

## Industrial



- Repair cracks, defects and joints in **floors** and **waterproof containment bunds**.
- Provide protective coatings and seal leaks on **chemical plants**.
- Fill voids in **loading docks**.

## Residential



- Waterproof **basements**.
- Fill voids underneath **driveways** and **footpaths**.
- Waterproof and seal leaks surrounding **swimming pools**.

For more information about our products please visit: [www.nufins.com](http://www.nufins.com)

**Head Office**

Kingston House

3 Walton Road

Pattinson North

Washington

Tyne & Wear

NE38 8QA

**T:** +44(0)191 416 8360

**E:** [info@usluk.com](mailto:info@usluk.com)

**W:** [www.nufins.com](http://www.nufins.com)