

PAREX
Building expertise, together

BUILDING BRIDGES WITH PAREX PRODUCTS



www.parex.co.uk

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PAREX is a leader in the development and manufacture of high performance, quality-assured materials for many aspects of bridge construction and repair.

These include specialist cementitious, epoxy & polyester resin-based products and bespoke formulas developed over three decades by the leading UK manufacturer of technical mortars.

Parex products have been used in major projects for the UK road and rail transport network. Many of the products are LUL approved. They are specified by engineers and design teams for their suitability and ability to perform in structural applications.

To Parex, bridges can mean a multitude of structures from simple supported decks of steel or concrete beams to complex large structures like the new Mersey Gateway, the Nottingham Transport Interchange and Hammersmith Viaduct on the A4 in West London. The company has also supplied a large number of “one-off” projects ranging from Millennium bridges to the refurbishment of an historic railway turntable.

Parex has supplied products to thousands of structures in the UK and Ireland which required either support, repair or novel solutions to particular problems.

The types of problems solved by Parex include, but not exclusively, bearing support with epoxies for elastomeric bearings and cement based products like CS Grout for mechanical type bearings including pot bearings and ‘sliders’(2601 accredited).

Other uses are deck repairs using fast setting products like Speedcrete and Epropatch and fixing of upstands and kerbs using Kerbfix. Fencing can be supported on grouts but are usually fixed down using one of the very many anchoring products produced in Parex’s own UK facility.

Parex has more recently successfully developed and gained a reputation for producing Cable Grout for use in post-tensioning. This material is used where slender aesthetic design is desired by the architect or the local authority.

Other Parex products include rapid setting and high early strength materials for limited possession work where quick return to service is required. On new structures slower setting material can be used.

The portfolio of Parex technical mortars used for bridge construction and repair are extensive and are supported by a broad choice of Streetscape mortars, bedding, bonding and pointing materials widely used for supporting hard landscaping work.

Where required, Parex is able to offer specialist technical advice and detailing for specific projects. CPD-style presentations explaining the products and their capabilities are carried out every week to engineers and contractors.



Materials for a wide variety of bridge building and rail applications

CABLE GROUT

Cable Grout is a specially formulated Portland cement powder mix designed for the grouting of cables in post-tensioned concrete for EN 446(2007) and CARES Appendix PT10 procedures.

ACRYLIC MORTAR

An exceptional concrete repair product with low alkali content, moderately fast setting and high ultimate strength properties. Both summer and winter grades are available for the repair of precast, in-situ and reinforced concrete. Meets BD27/86 pt6. Department of Transport Specification for Bridge Repairs.

100 NEWTON GROUT AW

100 Newton Grout AW is an ultra high strength grout specially formulated using a Portland cement powder mix. Gives high early strength. HA2601 compliant subject to individual batch testing as per standard.

731 LANKOREP STRUCTURE

731 Lankorep Structure is a balanced shrinkage mortar based on special cements with selected graded silica aggregates, fibres and admixtures. The very low porosity significantly slows down the spreading of carbonation. 5-50mm per pass EN1504/3 R4.

732 LANKOREP FACADE

Lankorep Façade is a balanced non-shrinkage mortar based on special cements with selected graded silica aggregates, fibres and admixtures. Suitable for overhead and vertical repairs between 1-40mm. EN1504/3 R2.

CS GROUT

A high strength flowable grout ideal for grouting gaps and voids under base plates, crane rails, bridge bearings and similar applications, including dowel bars, between precast concrete units and beneath machine bed plates. HA2601 compliant subject to individual batch testing as per standard.

DECKTECK W & F

Water-based, waterproof coating with high build and anticarbonation properties for use on concrete, masonry, wood and suitably primed metal. Available in various colours. Minimum concrete cover equivalent is 380mm.

E33 EPOXY GROUT

High strength epoxy resin-based grout for a broad range of applications including base plates, bridge bearings, reciprocating machinery, high dynamic and high impact loading. Widely used under rail base plates.

EPOXY 200

Highest performance resin anchor material for annular gaps of 2mm to 12mm. Used for rail and tram track anchor applications or any situation requiring resistance to critical loading.

EPOXY ADHESIVE 305

Special high strength adhesive for a broad range of bonding applications in the construction and civil engineering sectors. Used extensively in elastomeric bearing applications.

EPOXY INJECTION GROUT

Low viscosity grout for gaps of 0.2 to 10mm. Can be poured or pump injected. Full kit available. Injection grouts suitable for grouting and sealing the narrowest of gaps in concrete and masonry.

EPOXY PUTTY

Putty designed high strength bedding of precast concrete, steel units, stanchions and for anti-vibration installations. Moulds to ANY shape giving maximum surface contact.

EPOXY THIXOTROPIC INJECTION GROUT

A stay-in-place grout for filling and bonding cracked concrete without shuttering. Sister product of epoxy injection grout.



HIGH BUILD PROTECTIVE COATING

Epoxy resin-based anticarbonation coating with exceptional protection of exposed rebar and other structural steel. Provides 760mm of concrete equivalent cover based on a 170 micron coating.

KWIKPATCH

Rapid repair and patching mortar suitable for fair faced repairs to all types of concrete surfaces.

LA REPAIR CONCRETE

Low alkali concrete suitable for use on bridges or soffits and suitable for cathodic protection projects. The material conforms to; EN1504-3 R4 repair principles 3.2, 4.4, 7.1, 7.2, DTp BD27/86 Clause 4 and «Specification for Highways Works» Clause 1704.6. Can be pumped.

LIGHTWEIGHT MORTAR RAPID

A rapid setting and hardening mortar with a compressive strength of up to 9N/mm² in 1 hour.

POLYCURE

A general purpose curing membrane for all cementitious repair products and placed concrete.

POLYESTER PUTTY

A polyester-based putty compound for rapid bedding, bonding and jointing of concrete, steel and masonry. Available in Summer and Winter grades.

THIXOTROPIC JOINT FILLER

Thixotropic Joint Filler Portland cement based grout with special additives. Designed for thixotropic 'pump and stay' placing plus shrinkage compensation. Used to fill joints avoiding the use of formwork in between pc wall units.

RAILFAST GROUT

The fastest strength gain rail plate grout, 50N/mm² in 2 hours for Engineering hours work.

RAPID MORTAR

A family of three Rapid Mortars which can be used stand alone or mixed and matched on site to produce a repair mortar to create a colour match for the concrete substrate.

SBR LEVEL COAT

Aesthetic protective coating for concrete, blockwork and masonry; as a commercial decorative coating for construction areas; aesthetic finishes for pre-cast concrete to cover minor and major blemishes and imperfections.

SKIM COAT PLUS

Fairing coat to produce a smooth finish to all types of in-situ or precast concrete surfaces.

SPEEDSURE S GROUT

A rapid setting high early strength grout, ideal for limited possession work on road or rail works. It is design for high early strength gain and rapid return to use.

TECFAST CONCRETE

Rapid setting concrete which allows road and rail opening in one hour under normal conditions. Typical applications include the installation of structural concrete, road furniture, barriers and stanchion posts. EN1504/3 R4.

TECGRIP C

Pumped polymer reinforced cementitious grout for fixing helical bars into masonry structures. CE marked to EN 998-2.

TECGRIP H,HL,HXL, V,VL,VXL AND CAS VE

A family of high strength anchor grouts purpose-designed for a variety of fixing applications in downward to overhead facing holes of various diameters. CAS Vinyl Ester is ETAG 001-5 compliant and CE marked.

PRODUCT SELECTOR

	APPLICATIONS	STANDARD SETTING	FAST SETTING
Ground/Structural Anchors	Anchors into concrete/masonry < 1m	CS Grout ⁽²⁾	Tecgrip V or H
	Anchors into ground > 1m	Soil Nailing Grout	Speedsure S Grout
	Diamond Cored Holes	CS Grout/E33	Tecgrip CAS Vinyl Ester
Brickwork Stabilisation	S/S Twisted Ties	Tecgrip C ⁽⁴⁾	Tecgrip CAS Vinyl Ester ⁽¹⁾
	Small voids and cracks	Hi Flow SC Grout or Cable Grout	Epoxy Injection Grout Epoxy Thixotropic Injection Grout
Cill beams - abutments	Bedding	Bedding Mortar SF CS Grout	Pumpable Mortar (PPM)
	Location Pins	CS Grout/700 Clavexpress ⁽³⁾	Speedsure S Grout/ Tecgrip V
	Washers/plates to spread load	Epoxy Grout	Polyester Putty
Bridge Bearing Bedding Mortar	Creating concrete plinths or for bedding of bridge bearings	CS Grout (2)	100 Newton Grout AW (2)
Fixing rubber strip/ bearings Mechanical beams as above Fixing beams to bearings	To steel/concrete beams etc.	Epoxy Adhesive 305	
		E33 Epoxy Grout	Railfast Grout
		Epoxy Putty	Polyester Putty
Longitudinal concrete infill, beam to beam connections	Stitching Operations	LA Repair Concrete ⁽³⁾	Tecfast Concrete ⁽³⁾
Curing	Cement based products	Polycure	
Handrail Fixing	Vertical down situations	Tecgrip V	Tecgrip CAS Vinyl Ester ⁽¹⁾
Concrete Repair	Overhead	732 Lankorep Facade ⁽³⁾	LW Rapid/Acrylic Mortar
	Nicks and knocks	731 Lankorep Structure ⁽³⁾	Kwikpatch
	Behind and round rebar	LA Repair Concrete ⁽³⁾	LW Rapid/Acrylic Mortar
	Pourable applications behind formwork	LA Repair Concrete ⁽³⁾	LARC (acc)/ Tecfast Concrete
Fairing	Skim Coat Plus		Rapid Mortar Slurry Mix
Aesthetic Coating	Covering obvious repairs	SBR Level Coat	SBR Level Coat
		228 Lankolastic ⁽³⁾	228 Lankolastic ⁽³⁾
		Decteck W or F/High Build Protective Coating	
	Low cover rebar	High Build Protective Coating	

⁽¹⁾ CE/ETA13/0421 ETAG 01-05 Options 1 & 7. ⁽²⁾ HA2601 compliant (subject to individual batch testing) ⁽³⁾ EN1504 Compliant. ⁽⁴⁾ CE marked to EN 998-2

Full details of all these products, along with Health and Safety Data Sheets are all available on-line at www.parex.co.uk or for concise product details, reference numbers and brief instructions for use, why not request a copy of the Parex Technical Mortars Pocket Guide. For assistance and advice on the most suitable products for specific applications please contact our Technical team on 01827 711755.

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