

Highways Maintenance Solutions

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Innovation | Confidence | Durability



An **INSTARMAC** Brand

HAPAS Approved Manhole Reinstatement System
Highway Reinstatement Material
Repair and Refurbishment
Pothole Repair
Ancillaries



INDEX

HAPAS System	page 6
Highway Reinstatement Materials	Page 16
Repair & Refurbishment Materials	Page 22
Ancillary Products	Page 26
Training and Site Support	Page 29
Ultracrete for Rail	Page 30
Success Stories	Page 32
The Instarmac Family	Page 34

Made in the UK

Manufactured under the exacting requirements of ISO 9001, ISO 14001 and OHSAS 18001, all ULTRACRETE products have a guaranteed world-class performance and conform to the relevant industry specific standards. Our state-of-the-art manufacturing facility operates to the strictest requirements in the industry, reinforcing our reputation for quality, service and continual improvement.

Experience

Formulating, manufacturing and distributing materials for the highways maintenance industry for over 35 years ensures that our products have a guaranteed on-site performance. As an Instarmac Group plc brand, ULTRACRETE is synonymous with premium quality, outstanding customer service and value thanks to the resources, experience and proven approach to business amassed since 1977. Continued success endorses our original approach – staying close to our customers, continuously investing in new technologies, caring about the environment and empowering our employees to achieve their personal best.

Responsibility

We have implemented a number of measures such as intelligent lighting, rain waste and washout recycling, warm air recycling, waste oil, printer cartridge, plastic and pallet management. All of these measures, and a company culture that constantly strives for new initiatives, has led to our seal of approval from the Carbon Trust.

Working with the Waste & Resources Action Programme (WRAP) we are continuously increasing our use of recycled materials such as glass and rubber.

For technical and safety datasheets on our product range, please visit: www.ultracrete.co.uk

All information contained within this brochure was correct at time of print

About Us...

Customer Care

We are passionate about our award-winning customer care. We aim to help you do what you do best, by supporting you with outstanding service every step of the way. Your dedicated sales contact is available to provide you with the technical and practical support you need to complete any project.

Delivery

Our privately owned fleet is managed and fully tracked in-house. Our drivers have the latest satellite navigation systems and are equipped with mobile phones, offering a pre-delivery contact service when needed. We also offer free live delivery tracking so we can tell you where your delivery is in real time.

Training and Support

Our dedicated training team, with extensive practical knowledge, are always at your disposal. We have modern indoor and outdoor training areas, ideally suited for practical applications and developing product knowledge and confidence - the perfect avenue for you to try our product range.

Our training courses are offered free of charge on or off site, and can be tailored to suit your specific needs. We are a Royal Institute of British Architects and a Royal Institute of Architects of Ireland CPD approved provider.

For more details on these training sessions and for information on our Material Awareness and HAPAS system courses please see page 29 or contact us on +44(0) 1827 871 871 or email: enquiries@instarmac.co.uk.

Award Winning Health & Safety Processes

The health and safety of all those who work, visit and deliver to Instarmac's state-of-the-art facilities has long been of highest priority to the company. Instarmac's QHSE team work intensively to ensure their processes reflect the high class levels already achieved by the company's production, marketing, customer service and logistics departments – all award winning in their respective areas. The Royal Society for the Prevention of Accidents awarded Instarmac the highly sought after Gold Award in 2013 in recognition of the excellent health and safety management systems in place. This was based on very strong audit results and a phenomenally low figure of **'zero lost time accidents'**, as exceptional result within a sector whose average reported accident rate is 676 (RIDROR 2010-11 and Labour Force Survey 2009/10-2011-12).

Call us on +44 (0)1827 871 871
Email us at ultracrete@instarmac.co.uk



CE MARKING



As of July 2013, it became compulsory for all manufacturers to include CE marking on their products that fall within the scope of a harmonised European Standard (hEn). In line with this, Ultracrete products, where appropriate, now bear this logo.

CLP - Classification, labelling and Packaging of substances and mixtures

From 1st June 2015 there will be a new regulation in place regarding the packaging and labelling of mixtures and substances. The new CLP (Classification, labelling and Packaging of substances and mixtures) regulations require all EU member states to have a standardized approach to labelling mixtures and substances. To ensure we are fully compliant with these regulations you will start to see changes to the labelling of our products. The changes will include

the current orange and black hazard symbols being replaced by a white and red diamond symbol.



IT **HAS** TO BE HAPAS...



The Highways Authority Product Approval Scheme was developed to offer clear, consistent and tested methods for products and systems designed for use in the highways industry. The scheme provides local authorities and contractors with a definitive guide to highway maintenance, without having to undertake their own trials.

Ultracrete's Ironwork Reinstatement System is HAPAS approved by the BBA for the installation of all types of access covers including composite, ductile and cast iron. The system comprises of a range of bedding mortars (manhole levellers), back fill flowable concrete, cold lay asphalt and bitumen seal and tack spray, that meet and exceed the demands of the HAPAS scheme. It offers the reassurance of being independently tested by a UKAS accredited laboratory which verifies its performance.

All components offer, where appropriate, impressive tensile and compressive strengths and an extended service life with no risk of split liability. The system helps to minimise the risk to professional indemnity insurance and the materials' fast setting properties vastly reduce costs by allowing areas to be open to traffic within an hour.



Installation without HAPAS approved products can lead to early failure. Choose Ultracrete's HAPAS Approved Manhole Reinstatement System for outstanding performance and added confidence.

The system comprises of:

Ultracrete Envirobed HA104®

High performance Bedding Mortar
Contains recycled glass
Conforms to HA104

Ultracrete PY4

Polyester Resin Fast Setting Bedding Mortar
Conforms to HA104

Ultracrete M60

Rapid Strength Bedding Mortar
Conforms to HD27/04

Ultracrete QC10 / F

Rapid Strength Concrete

Ultracrete SCJ

Bitumen Cold Joint Sealer & Tack Coat

Ultracrete Instant Road Repair®

Cold Lay Asphalt Concrete.

Independently BBA/HAPAS approved

✓ Withstands freezing weather conditions

✓ Tested to exceed a 5 year service life with no risk of split liability

✓ Trusted and widely used by Highways Contractors, Local Authorities and Utility Suppliers for over 30 years

✓ The recommended system for the installation of all types of access covers including composite, ductile and cast iron.



Instaband ECO
Thermoplastic Skid Resistant
Over Banding Tape

www.ultracrete.co.uk



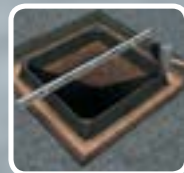
A picture frame is marked around the manhole



The picture frame is saw cut and excavated and the existing cover and frame removed



Old bedding mortar, loose bricks and debris are removed



Ultracrete Bedding Mortar (Envirobed, M60 or PY4) is placed on the supporting structure. The frame is lowered into position



Apply Ultracrete QC10 / F backfill concrete once mortar has set



Spray all vertical edges (including manhole frame) with Ultracrete SCJ seal and tack coat



Apply Ultracrete Instant Road Repair cold lay asphalt concrete to a depth of approx 45mm, compacted to 30mm



Ultracrete Instant Road Repair is compacted level with the existing surface. Apply Ultracrete Instaband ECO skid resistant overbanding tape if required

“Withstands freezing weather conditions”

“No risk of split liability”

“Widely used by highways contractors, local authorities and utility suppliers”

“Minimise traffic management with this fast track system”

Envirobed HA104®, the environmentally friendly bedding mortar alternative to resin-based materials, continues to be the material of choice for utility companies across the UK.

Envirobed HA104® has an excellent track record and has endured exhaustive trials with zero failures.

Envirobed HA104® is specifically formulated for the bedding of all access covers both ductile and composite and is particularly suitable for use in wet weather conditions. Superior compressive, tensile and flexural strengths are achieved within 3 hours, providing significant resistance to heavy trafficking and manhole frame deflection.

- Conforms to the Department of Transport Design for Roads & Bridges: Mortars for Bedding Ironwork, HA104/09
- 51N/mm² compressive strength and 5.8N/mm² tensile strength after just 3 hrs
- Workability: 15 minutes
- Set time: 30 minutes
- Suitable for depths from 10-50mm in one pass
- Can be used at temperatures as low as 1°C
- Open to traffic within 1 hr
- Environmentally friendly - no requirement for hazardous waste disposal
- Contains recycled glass

Packaging: 20kg paper bag & 2.5L plastic bottle
18kg bucket inc. 2 x 8kg powder and 2 x 1ltr liquid bottles

📄 Related Products: SCJ, Instant Road Repair, QC10 / F

✓ Proven

✓ Certified

✓ Trusted



Envirobed HA104®
High Performance
Bedding Mortar



HAPAS Approved System - Mortars



PY4 Polyester Resin Fast Setting Bedding Mortar



PY4 is a two component, fast setting polyester resin mortar. It is particularly suitable for rapid installation and reinstatement in heavily trafficked areas.

- Complies with the Department of Transport Design Manual for Roads & Bridges: Mortars for Bedding Ironwork, HA104/09
 - 61.5N/mm² compressive strength and 7.41N/mm² tensile strength after 1 hour
 - Workability: 5-10 minutes
 - Set time: 15 minutes
 - Suitable for depths of 5-50mm
 - Can be applied at 0°C
- Packaging: 25kg pack



Related Products: SCJ, Instant Road Repair, QC10 / F

M60 Fast Setting Rapid Strength Bedding Mortar



M60 is a rapid strength bedding mortar for use with all access covers, as well as for the rapid bonding of granite setts, flags, emergency repairs and bedding of kerbs.

- **Enhanced formula - now sets faster in the cold and smoother to trowel**
 - Conforms to the Department of Transport Design Manual for Roads & Bridges HD27/04
 - Suitable for ironwork conforming to BS EN 124; 1994
 - 24N/mm² compressive strength within 1 hour & 5.24N/mm² tensile strength at 28 days
 - Workability: 5-10 minutes
 - Set time: 20 minutes
 - Suitable for depths of 10-75mm
 - Open to traffic in 1 hour
 - Guarantees exceptional bond strength
- Packaging: 25kg bag or bucket



Related Products: SCJ, Instant Road Repair, QC10 / F



Ultracrete's proven and certified Manhole Reinstatement System continues to be the system of choice for highways contractors, local authorities and utility suppliers across the UK and Ireland, for the installation of composite, ductile and cast ironwork.

- Envex Contractors Limited
 - Fraser Langden Western Ltd
 - South Gloucestershire Direct Services
 - Grisedale Contractors Ltd
 - CR & J Jenkins Limited
 - Kelbec Civils Limited
 - Laing O'Rourke Utilites Ltd
 - LCL Utilities
 - Network Rail Infrastructure Ltd
 - Powys County Council
 - Pembrokeshire County Council
 - North Ayrshire Council
 - EnterpriseMouchel Limited
 - ASB Contractors Ltd
 - F M Conway Limited
 - Connect Plus
 - Public Sewer Services Limited
 - Dover Harbour Board
 - JSM Construction Ltd
 - Jacksons Civils Ltd
 - Coventry City Council City Services
 - Volker Highways
 - Conley Utilities
 - UKDN Limited
 - DSS Enviromental
 - Fujitsu
 - Grisedale Contractors Ltd
 - HM Lowe & Son
 - Intergrated Water Services Ltd
 - JJ Consultants Ltd
 - Leicester City Council
 - Mayhew Construction
 - Magdalene Telecom Ltd
 - Norfolk County Council
 - Network Rail Infastructure Ltd
 - Oxford City Council
 - Optimise Water LLP
 - R.W Services Ltd
 - Ravensthorpe Construction Ltd
- www.ultracrete.co.uk

HAPAS Approved System - Rapid Set Concrete



QC10 F Flowable Fast Set Rapid Strength Concrete



"Keeps ironwork stable, increasing durability"

QC10 F is a specifically formulated two part polymer and fibre modified concrete for backfill around manhole frames and gullies and can also be used for surface repairs. Ideal for areas that require a fast turn around e.g. the rail and high speed network.

- 20N/mm² compressive strength after 90 minutes
- Fibre modified to gain 6N/mm² flexural strength & 3N/mm² tensile strength at 28 days
- Workability: 5-10 minutes
- Set time: 10-20 minutes
- Suitable for depths between 30-250mm
- Shrinkage compensated to eliminate cracking
- Flowable – literally pours from the bucket filling all voids forming an excellent bond

Packaging: 25kg plastic bag or bucket



Related Products: SCJ, Instant Road Repair, PY4, M60, ENVIROBED HA104®

QC10 Fast Set Rapid Strength Concrete



"Over 3 decades of proven performance"

QC10 is ideal for haunchings, commercial sign/post installation and ironwork backfilling.

- Contractor friendly formulation
- Suitable for a wide variety of applications
- Can be bulked out in certain applications*
- 20N/mm² compressive strength after 2 hours
- Workability: 5-10 minutes
- Set time: 10-20 minutes
- Suitable for depths between 30-250mm

Packaging: 25kg plastic bag or bucket

*May affect performance

Related Products: SCJ, Instant Road Repair, PY4, M60, ENVIROBED HA104®



Not sure which product to use? Call us on 01827 871 871



Site: Gatwick Airport

Project: Gully Repairs to runway

Material used: Ultracrete QC10 F Rapid Set Flowable Concrete



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HAPAS Approved System - Surfacing Material



Instant Road Repair Cold Lay Asphalt Concrete



Instant Road Repair is a BBA/HAPAS Approved Permanent Cold Lay Surfacing Asphalt Concrete for first time permanent reinstatements. Available in two grades: 6mm for permanent repairs in footways, footpaths and cycle

tracks and 10mm for type 3 and 4 roads. It offers the benefits of an instant, first time permanent reinstatement, which when compacted, can be trafficked immediately.

- Environmentally friendly (Eliminates the need for disposal of temporary materials to landfill sites)
- Rapid repair time – no cooling required (reducing congestion and fuel costs)
- Cost and labour saving – only one visit required
- Can be used in ALL weather conditions
- High 65 PSV (provides a safe trafficking surface)
- High performance emergency repairs on motorways and trunk routes

• Also available in red 6mm grade

Packaging: 25kg plastic bag or bucket



📄 Related Products: SCJ, Permasoil, LMP, Instaband ECO

SCJ Cold Joint Sealer and Tack Coat Spray



SCJ is a bitumen cold joint sealer & tack coat spray that is applied onto vertical edges and the surface base before the application of asphalt. It will increase the bond of the material to the substrate and

waterproof the area. This will significantly enhance the reinstatement's performance by preventing the ingress of water and the freeze/thaw effect.

- Simple and economical to apply - no fuss, no mess, no waste
- Can be used in all weather conditions
- One can will cover typically 100 x linear meters or 10 - 15 manhole covers

Packaging: 750ml aerosol can, 12 cans per box



📄 Related Products: Permanent Pothole Repair, Instant Road Repair



Site: Chester Road, Cheshire

Materials Used: ENVIROBED HA104®, Instant Road Repair and SCJ Seal and Tack Coat Spray



Highway Reinstatement Material



Permanent Pothole Repair Cold Lay Asphalt Concrete

“ The FIRST EVER
HAPAS Approved
pothole repair ”

Permanent Pothole Repair is the ideal solution for the repair of potholes in roads, driveways and car parks.

It can be installed in all weather conditions and is instantly traffickable!

- Suitable for both planned & reactive pothole repairs
- Use with SCJ Seal & Tack spray for permanent repairs
- Fully graded hard stone with PSV > 60
- Only one visit required
- Recyclable containers
- A flexible repair for flexible roads

Packaging: 25kg bucket
25kg plastic bag*



📄 Related Products: SCJ, LMP, Instaband ECO



* minimum order quantity applies

“Local Authorities agree that Permanent Pothole Repair is the proven choice for reactive and planned maintenance that really lasts!”

- Coventry City Council
- Essex County Council
- Gateshead MC
- Ashfield District Council
- Greenwich London Borough
- Harlow District Council
- Leicester City Council
- Lancashire Council
- Gwynedd Council
- Cheshire East Council
- Leeds City Council
- Rugby Borough Council
- Sefton Council
- Thurrock Borough Council
- Oldham Metro Borough Council
- Shropshire Council
- Warwickshire County Council
- Suffolk County Council
- Worcester City Council
- Oxford Council
- Aberdeenshire Council
- Durham County Council
- Gravesham Borough Council
- Walsall MBC
- Wandsworth Borough Council
- Knowsley Council
- Havant Borough Council
- Manchester City Council
- Hull City Services
- Preston City Council
- Ryedale District Council
- Warwickshire County Council
- Suffolk County Council
- Worcester City Council
- Bury MBC
- Crawley District Council
- Rugby Borough Council
- Sefton Council

www.ultracrete.co.uk



M45 Rapid Strength Bedding & Repair Mortar



M45 is a rapid strength bedding and repair mortar for use with all access covers. Its rapid set properties make it a reliable solution for emergency

concrete road repairs, the levelling of covers, bedding of kerbs, coastal protection and tidal repair projects.

- Compressive strength 20N/mm² in 45 minutes
- Workability: 5-10 minutes
- Set time: 15 minutes
- Conforms to Department of Transport Design Manual for Roads & Bridges HD27/04
- Suitable for depths from 10-75mm
- Easy mixing
- Excellent workable consistency

Packaging: 25kg bag or bucket



i Related Products: QC10 / F, SCJ, Instant Road Repair, Instaband ECO

M90 All Purpose Fast Set Mortar



M90 is an all purpose fast set mortar ideal for bedding access covers and general repairs.

- **Enhanced formula - now sets faster in the cold and smoother to trowel**
- Compressive strength 21N/mm² in 2 hours
- 3.51N/mm² tensile strength at 28 days
- Suitable for depths from 10mm – 75mm
- Workability: 5-10minutes
- Set time: 20 minutes
- Open to traffic in 90 minutes
- Shrinkage compensated
- Exceptional bond strength

Packaging: 25kg bag or bucket



i Related Products: QC10 / F, SCJ, Instant Road Repair, Instaband ECO

QC6 Rapid Set Surfacing Concrete

QC6 is a non-shrink concrete designed for the surface reinstatement of 'picture frames' or fillets around access covers and general repairs to roads and pathways, concrete drives, pavements and surface areas surrounding street furniture. Ideal for reinstatements in town centres



and housing estates, where the use of barriers and traffic cones can be eliminated and defects caused by damage or vandalism can be avoided.

- Set time: 15 minutes
- 57N/mm² compressive strength at 28 days
- Suitable for depths from 12mm-100mm
- Workability: 5-10 minutes
- Vandalism-proof - minimising the use of traffic management and second visits
- Excellent workability

Packaging: 25kg bag or Bucket



RSC is a rapid set cement, which when mixed with site aggregates, produces fast setting, early high strength mortars or concrete. The exceptional high performance gained from using design mixes based on RSC means the product is suitable for a whole range of concrete and mortar applications where early

opening to traffic is essential. It is ideal for use on cable box floors, road crossings, sign and camera bases.



- Exceptional strength gain - up to 20N/mm² compressive strength can be achieved in an hour!
- Multi-purpose – can be mixed to produce a concrete or mortar
- Early opening to traffic reducing labour and traffic management costs
- More economical than proprietary mixes

Packaging: 20kg bag or bucket

RSC Extra Rapid Hardening Cement



Highway Reinstatement Material

Flowcon Self-Compacting Concrete



Flowcon is a pre-blended, general-purpose flowable self compacting concrete, ideal for most multi-purpose concreting applications such as patching or post erection. Flowcon is ideal where a quality mix is required without the waste and inconsistency of site mixed materials.



- Workability: 60 minutes
- Set time: 6 hours
- High compressive strength 60N/mm² at 28 days
- Flowable for easy application and great workability
- Pre-blended to ensure a consistent quality mix
- Achieves depths of 20-200mm (depending on application)

Packaging: 25kg plastic bag

Related Products: Ultrascapc Pro-Prime Slurry Primer, Ultra Floor Prime IT AR

Perma-Soil Alternative Reinstatement Material



Perma-soil is a soil stabiliser that turns excavated spoil into usable backfill within minutes. It is ideal for use with small utility excavations, and when backfilling poles, water meters and water tobies etc.



- Quick and easy to use in situ
- Remains permeable to water
- Can be re-excavated
- Increases load bearing ability of excavated soil
- Significantly reduces the need for primary aggregates
- Eliminates the need to haul away spoil or transport backfill materials to the job site
- Meets the requirements set out in the Utility WRAP (Waste and Resources Action Programme) Agreement
- Meets SMF and SMR Requirements of Appendix 9

Packaging: 25kg & 12.5kg bucket or 25kg bag

Related Products: Instant Road Repair, SCJ, Instaband ECO

Highway Reinstatement Material

Post Fix Rapid Hardening Post Fix Concrete

Post Fix is a rapid hardening 10mm concrete formulated for sub-surface use in the fast and efficient installation of posts, signs, fences, telephone and electricity poles, street lighting columns, street furniture, speed cameras and road side barriers.



- Compressive strength 41N/mm² at 28 days
- Workability: 5-10 minutes
- Set time: 15 minutes
- Holds the post/fixing in place instantly
- Small contractor-friendly units, which offer consistent quality; ideal in site areas with limited access
- Professional grade that helps eliminate second visits and traffic management costs

Packaging: 25kg plastic bag

Related Products: SCJ, Instant Road Repair, Instaband ECO

Super Fix is a single part, rapid hardening blend of cements, graded aggregates and additives formulated for the installation of posts, fences and poles. The product is ready to use and requires no mixing. Simply pour the dry mix into the hole and add water.



- Rapid Set with compressive strength of 25N/mm² at 28 days
- Simple & Easy to use - just add water
- Shrinkage compensated - no cracking

Packaging: 25kg bag

For heavy duty applications, Ultracrete recommends QC10, Fast Strength Rapid Strength Concrete. Please see page 12.

Related Products: Instant Road Repair, SCJ, Instaband ECO

Super Fix Single Part Post Mix



Repair & Refurbishment

FP-1 Rapid Setting Patch and Kerb Repair



FP-1 is a two-component rapid repair mortar, comprising of a fully pre-blended cement/aggregate and a polymer modified liquid admixture; making on site mixing fast and fool proof. It is ideal for the reinstatement of small areas such as trip hazards, **kerbs and steps** where prompt access is required.

- Compressive strength of 50N/mm² at 28 days
- Suitable for depths from 10mm to 100mm
- Workability: 7 minutes
- Set time: 25 minutes
- Can be trafficked within 2 hours
- Exceptional bond strength

Packaging: 10kg tub containing 9kg powder and 1ltr polymer additive



FTC Fast Set High Strength Repair Concrete



FTC is a high strength, fast set concrete, suitable for small and large section reinstatements to car parks, warehouses and bridge decks. With an initial set of just one hour, the product can accommodate depths from 10-50mm (up to 100mm in pockets).

- Compressive strength 66N/mm² at 28 days
- The material is fibre reinforced enabling an excellent tensile strength of 4N/mm² & flexural strength of 9N/mm² at 28 days
- Workability: 20 minutes
- Set time: 60 minutes
- Can be opened to foot traffic in 2 hours and vehicular traffic in 4 hours
- Excellent moisture content results after 24 hours, which means early application of waterproofing membranes is possible
- Complies to clause 1704.6 Control of Alkali Silica reaction

Packaging: 25kg bag

i Related Products: Ultrascap Pro-Prime Slurry Primer



Site: Rock of Gibraltar

Project: Repair of main road leading to the Great Siege Tunnels

Material used: Ultracrete FTC, Fast Set High Strength Repair Concrete



www.ultracrete.co.uk

EP-R9 Epoxy Bedding & Concrete Repair Mortar



EP-R9 is a two-part high strength epoxy resin mortar and primer system. Especially suitable for bedding granite setts, paving elements up to recess covers, tree grids and coping stones. An ideal concrete repair for areas

subject to heavy wear and tear. EP-R9 is entirely waterproof and chemical resistant once cured, making it perfect for yard repairs and water features.

- Compressive strength after 7 days of 75N/mm², ideal for heavily trafficked areas.
- Tensile strength 15.6N/mm² & flexural strength 22.4N/mm² after 7 days.
- Chemical and Urine resistant, perfect for yard repairs and harbour walls
- Waterproof
- Exceptional bond strength 45N/mm²
- Workability: 30 minutes
- Set time: 3 hours

Packaging: 10kg or 22kg pack



HF High Flow Precision Grout

HF is a high flow precision grout suitable for the infill of voids from 10-100mm. The product is a very dense low permeability material, which does not suffer damage from freeze/thaw conditions.

As a result, HF is ideal as a bridge bearing grout, as well as for the securing of stanchion base plates, machine beds and parapet legs.

- Exceptional compressive strength gain of 29N/mm² after 24 hrs and 70N/mm² at 28 days.
- Shrinkage compensated
- Chloride free
- High flow - can be pumped or poured
- The absence of reactive materials eliminates corrosion and staining
- Complies with the specification for Highways Works Clause 2601

Packaging: 25kg bag



PY5 Flowable Rapid Setting Polyester Resin Mortar

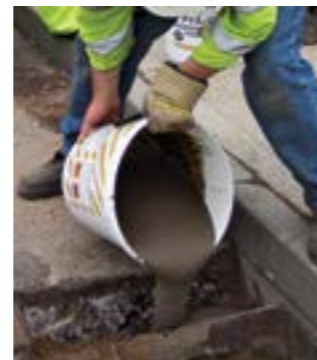


PY5 is a flowable polyester resin mortar suitable for anchoring bolts or bars, bedding cats' eyes, airport runway lights, backfilling manholes, balustrades, traffic

loops and sensors. The product is also perfect for grouting street furniture and traffic signs.

- Compressive strength of 85N/mm² after 1 hour
- Flexural strength 21N/mm², tensile strength 7.28N/mm² after 1 hour
- Workability: 5-10 minutes
- Set time: 15 minutes
- Can be applied at 0°C
- Open to traffic in 40 minutes

Packaging: 25kg pack



Site: Spitfire Roundabout, Chester Road

Project: Erection of Spitfire memorial
Material used: HF High Precision Grout



Instaband ECO Thermoplastic Skid Resistant Over Banding Tape

HAPAS
Roads and Bridges
Agrément Certificate



Instaband ECO is a thermoplastic, skid resistant over-banding tape designed for application to asphalt roads to prevent water ingress and progressive fretting, which leads to structural road failure. It can be used in addition to our Ultracrete BBA/HAPAS

Approved Reinstatement System, or applied on its own for the sealing of reinstatement joints and general cracks up to 5mm wide and fretting edges.



- No waste – cut as required
- Quick and easy to apply – minimising traffic management
- Cost effective – prolongs the life of the reinstatement by preventing the ingress of water
- High skid resistance value of 60 SRV - Improves road safety especially for motorbikes, cyclists & horses
- Exceptional bond between old and new surfaces
- Use with ThermoPrime on concrete or metal surfaces

Packaging: 5m long x 35mm wide roll, 10 rolls per box

i Related Products: ENVIROBED HA104®, QC10 / F, SCJ, Instant Road Repair, Permanent Pothole Repair, ThermoPrime

Instagrip Anti-skid patch repair



Instagrip is a resinous repair system for the patching of anti-skid areas and the reinstatement of anti-skid sections after maintenance work has taken place. Suitable for the repair of high friction surfacing typically placed on

pedestrian crossings, junctions, roundabouts, footbridges, subways, car parks, etc. It is also ideal as an anti-skid surface on steel road plates and manhole covers.



- Available in grey, buff, red, green and black.
- Easy to use
- Reduces traffic management, minimising time and congestion.

Packaging: 18kg pack including approx 1.4kg base, 600g resin, 12-13kg aggregate and application tools

Instaline Thermoplastic Road Marking

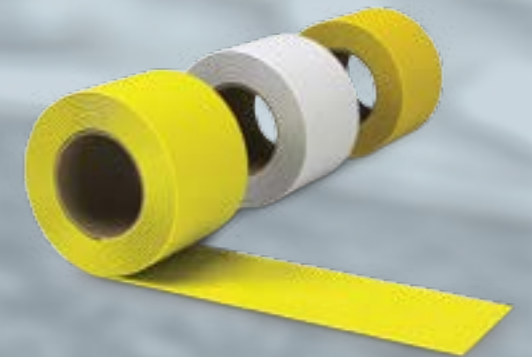
Instaline is a thermoplastic road marking ideal for the reinstatement of line areas on car parks, roads and carriageways, after maintenance work has taken place to enable instant road opening.



- Essential for the finishing of repairs and reinstatements – instant permanent low cost option for small repairs
- Simple to use, crisp clear pre-formed markings with excellent reflectivity and skid resistance
- Durable – asphalt and concrete compatible
- Minimises Traffic Management Act penalties
- Available in a range of colours and widths
- Low labour intensive

Packaging: Yellow - 5m x 100mm roll (6 rolls per box)
White - 5m x 100mm roll (6 rolls per box)
Primrose - 5m x 50mm roll (10 rolls per box)

i Related Products: Instagrip, Instaband ECO, Instant Road Repair, SCJ, ThermoPrime



Line Marking Paint is a solvent based marking spray, ideal as an effective and quick method for line or spot marking of pothole repairs, car parks, warehouses, building sites, sports areas, excavation sites, turf marking and landscape sites. The semi-permanent formula is effective for at least 3 months after application and will disappear under normal wear conditions.



- Economical
- User friendly - contains no chlorinate solvents
- Available in a range of colours

Packaging: 750ml aerosol cans, 12 cans per box

i Related Products: Permanent Pothole Repair, SCJ, Instant Road Repair

LMP Line Marking Paint



www.ultracrete.co.uk

CoverGrip Anti-skid Thermoplastic Kit



CoverGrip is a preformed thermoplastic Anti-skid sheet and primer kit for fast anti-skid treatment of new and in-situ road ironwork, plates and for the reinstatement of patches in high friction areas on the highway.

- Restores skid-resistance to 60 SRV
- Facilitates reactive maintenance
- Quick and easy to apply
- Improves road safety
- Cost effective; allows covers to be treated in-situ

1 kit treats over 60 x 0.6m² manhole covers

Packaging:

Supplied as a kit containing: 8 x boxes of CoverGrip (each box contains 5 x Black 1m x 600mm x 3mm (0.6m²) sheets) and 1 x box of 380ml primer cartridges (each box contains 12 cartridges, 36 nozzles and 1 applicator gun).

Each kit covers approx 24m²



1. Polished cover



2. Clean area



3. Cut



4. Prime



5. Heat



6. Anti-skid restored

Related Products: ENIVROBED HA104®, QC10 / F, SCJ, Instant Road Repair, Instaband ECO



We offer free of charge Material Awareness Days and RIBA Approved CPDs. Our BBA/HAPAS Approved Ironwork Reinstatement System course is available in half or full day formats and covers all stages of carriageway ironwork reinstatement. Our Material Awareness Days cover the entire product range and can be tailored to suit your needs.

We have both bespoke designed outside skills areas and an indoor training facility, specially developed for the highways maintenance market.

Our outside zones mimic closely the external environment for carriageway reinstatement applications, whilst the indoor provides purpose built areas to plan, practice and perfect your skills to benefit from our high performance products.

We are also more than happy to arrange training and product demonstrations at your premises or live on site at a time convenient to you.

For more information please call 01827 871 871 or email: enquiries@instarmac.co.uk



The Benefits:

- Get it right first time
- Try out some innovative products
- Learn the correct application process
 - Increase productivity
 - Save money
- Eliminate repeat visits



On or off site....

www.ultracrete.co.uk

ULTRACRETE FOR RAIL

Pothole Repair

- Ideal for repairs to station car parks
- Instantly traffickable – minimal disruption
- Use with SCJ Seal & Tack coat for a permanent repair



See page 14 for further information.

Bedding Kerbs & Ironwork

- Fast setting 10-20 mins
- Open to traffic within 1 hour



See page 10 for further information.

Perimeter Fence Installation

- Fast setting – holds fixing in place instantly
- Professional grade – eliminates second visits



See page 21 for further information.

Ironwork Reinstatement

- Superior compressive strength of 51N/mm² achieved within 3 hours
- Can be used in wet weather – work can continue in spite of the rain



See page 9 for further information.

Platform Kerb Repair

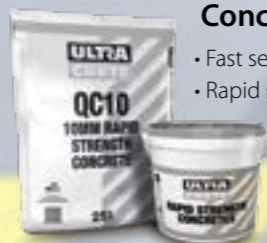
- Open to traffic in just 2 hours
- 50N/mm² compressive strength gain



See page 22 for further information.

Concrete Sleeper Repair

- Fast setting: 10-20 mins
- Rapid strength gain: 20N/mm² within 2 hours



See page 12 for further information.

Bedding Kerbs

- Fast setting: 15 mins
- Rapid strength gain: 20N/mm² at 45 mins



See page 18 for further information.

Signal/signpost Installation

- Rapid strength gain: 20N/mm² at 90 mins
- Flowable – easy application



See page 12 for further information.

Surface Reinstatement

- Fast setting: 15 mins
- Eliminates defects caused by vandalism



See page 19 for further information.



Our approvals list is constantly expanding, please contact Ultracrete for an up-to-date list anytime on 01827 871871

PLATFORM KERB REPAIR ON TIME
 FENCE/PERIMETER INSTALLATION ON TIME
 IRONWORK REINSTATEMENT ON TIME
 CONCRETE SLEEPER REPAIR ON TIME
 POTHOLE REPAIR ON TIME
 PATCH REPAIR TO CONCOURSE ON TIME
 SIGNAL/SIGNPOST INSTALLATION ON TIME
 STREET FURNITURE INSTALLATION ON TIME
 CROSSING REPAIRS ON TIME



DON'T EXCEED YOUR POSSESSION TIME!

Fast Setting • Contractor Friendly Units • Proven

Scottish Water

Issues with ironwork failure are well known and have been notoriously difficult to remedy. Decades of under-funding have left thousands of manhole covers loose, faulty or sinking, causing trip hazards for pedestrians, as well as safety problems for motorists.

Rigorous and extensive testing in a variety of demanding road traffic situations took place in Scotland to ensure Ultracrete's BBA/HAPAS Reinstatement System could meet the high specification put forward by Scottish Water. At the same time, all Scottish water contractors were fully trained on the system's correct application prior to the commencement of the 'Ironwork Improvement Project.'

Trials were successful and Ultracrete's Reinstatement System was used for the project enabling contractors to complete each reinstatement within the hour. Since then, Scottish Water has not experienced any failures over its 3000 reinstated sites, giving the assurance associated with using a proven and established system.

Ensure you choose a system with a real success record developed from over 30 years of highway maintenance experience.

For more information on Ultracrete's HAPAS system, please see pages 6-7



LUAS Tram Line, Dublin

Ultracrete's QC10 F flowable concrete has been used to carry out track repairs to a section of the LUAS tram line in Dublin.

A section of embedded track concrete shoulder, adjacent to the road surface, was under stress because the installation material had failed. Ultracrete recommended the use of its QC10 F flowable, fast set, rapid strength concrete to resolve the issue.

It is specifically formulated for back filling around ironwork (and composite), including gullies and manhole frames and can also be used for surface repairs. It requires only the addition of water on-site to form a high strength concrete, achieving a compressive strength of 20N/mm² after just 90 minutes! It sets in 10-20 minutes and is suitable for applications from 30-250mm in one pass.

In this instance it was used as a surface repair and was installed by maintenance contractor Civic Group Ltd, who carried out the reinstatement overnight during a tight time frame of just four hours, to ensure minimal disruption to the tram and its commuters. Existing material was broken out, before QC10 F was poured into the void around the girder rails. The site was re opened within the allotted window thanks to the material's rapid setting properties.

For more information on Ultracrete's QC10 F flowable concrete, please see page 12



Cumbria

Cumbria County Council introduced a 'tri-partie' working group to help highlight working practices within the highways sector and evaluate performance. The aim of the group is to deliver a first time repair, thus maximising budgets and minimising disruption to the public.



A trial was carried out on some potholes in an area running alongside Lake Ullswater. This particular piece of carriageway was chosen because of the regular flooding from the lake, leading to accelerated damage of the adjacent carriageway.

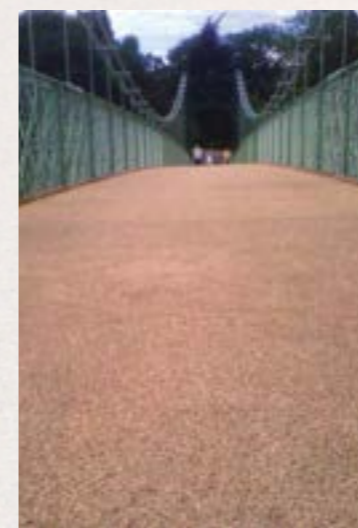
The potholes were treated with Ultracrete SCJ seal and tack coat spray to seal the edges before Ultracrete Permanent Pothole Repair was applied. Each pothole was compacted to refusal and traffic management removed, leaving the area open to traffic immediately. The -9° C temperature did not hinder the material's performance in any way.

The repairs have withstood subsequent flooding/trafficking with no signs of deterioration and Permanent Pothole Repair continues to be the material of choice for Cumbria CC.

For more information on Ultracrete's Permanent Pothole Repair, please see page 16.

Porthill Footbridge, Shrewsbury

Ultracrete's Instagrip Anti-Skid Patch repair has been used to refurbish an historic bridge in Shrewsbury town.



The historic bridge underwent an extensive scheme of work to repair and refurbish it, to enable the bridge to remain open for the long term. This included carrying out repairs to the bridges' structural steel work, grit blasting and repainting the whole bridge as well as replacing its timber deck.

Ultracrete's Instagrip Anti-Skid Patch repair was specified to cover the 210m² of newly installed heavy duty timber decking. Instagrip will adhere to timber, steel, concrete and bituminous material which makes it the ideal product to specify for bridge deck resurfacing. It is also suitable for the anti-skid patch repair of high friction surfaces typically placed on pedestrian crossings, junctions, roundabouts, subways, car parks and as an anti-skid surface on steel road plates and manhole cover frames.

It gives a striking finish whilst offering good skid and slip resistance when safety is also an important factor. It is available in grey, buff, red, green and black and in this instance was applied in buff after an initial coating of resin primer.

Porthill Footbridge now boasts a stunning new timber deck, a befitting improvement to the beautiful surroundings in which it stands.

For more information on Ultracrete's Instagrip Anti-Skid Patch repair, please see page 26

The Instarmac Family

Manufacturing has been at the heart of Instarmac since 1977 and today products are produced in our modern automated facility and sold to contractors, distributors and stockists worldwide. Specialist materials are sold through our four brands. Each brand offers a comprehensive range of products and innovative repair systems manufactured to exacting standards.

INSTARMAC®



BBA/HAPAS Approved Reinstatement System	BS 7533 Mortar Paving System	Ready Mixed Wall Tile Adhesives	Levelling and Smoothing Compounds
Pothole Repair	Sand Stabiliser & Surface Sealant	Floor & Wall Adhesives	Repair Mortars & Primers
Composite Covers & Frames	High Performance Resinous Mortar	Coloured Grouts & Ancillaries	Damp Proof Membranes
Ancillaries		Levelling and Smoothing Compounds	
Repair & Refurbishment			

Paving Grouts & Sealers	Coving adhesives
Pothole Repair	Joint Fillers & Smoothers
Concrete Repair	Plasterboard Finishing Compound
Drive restoration	



Instarmac currently has over 20 licences worldwide, manufacturing and marketing Ultracrete's Instant Road Repair®. It has been gaining momentum across the globe and has been used in over 25 countries including Germany, Switzerland, Italy, Japan, China, Australia, New Zealand and Kenya.

Scan the QR code to watch our video on how to become an Instarmac Licensee



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