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Highway Maintenance

- Ironwork Installation System

Repair & Refurbishment

Streetscape Systems

An Instarmac/Durey Castings Partnership



More than a material supplier

At Instarmac Group plc our service to you does not begin and end with your order.

Over the past 30 years, Instarmac have built a solid reputation based on the research, development and manufacture of innovative products for use in the highway maintenance and concrete repair

We offer technologically advanced, cost effective and bespoke solutions to local authorities, utilities, contracting teams, architects, specifiers, builder's merchants and civil engineers. All of our products are manufactured under the quality management system ISO 9001:2000.

Our commitment is to deliver high specification, rapid strength, fast setting products in small convenient contractor friendly units, which offer high standard of quality and resilience.

We are dedicated to meeting the needs of our customers above and beyond the provision of a quality product. We offer all of our customer's expert customer service, technical advice, site support, comprehensive bespoke training and CPD accredited presentations.

Instarmac and the Environment

As an award winning innovative company Instarmac have dedicated time and resources into thinking green and investing in the future. Efficient use of electricity, water, fuel and other non-renewable sources in our offices and factory has long been established as standard practice.

Intelligent lighting; rain, waste and washout water recycling; all electronic fax and order system; warm air, waste oil and waste cement recycling; printer cartridges, pallet and plastic

materials recycling are just a number of measures Instarmac are implementing to ensure they are reducing their carbon footprint to provide a sustainable future.



Plastic Container Recycling Scheme

As part of our commitment to help customers meet and exceed their sustainability targets, Instarmac have introduced a plastic container recycling scheme to add significant value to any business. This scheme will help decrease customers impact on the environment by reducing landfill and by recycling non-biodegradable plastic, which can

then be re-used by other industries. Instarmac are also registered with the Environment Agency as a controlled waste carrier ensuring containers are transported safely and re-processed in the correct manner by a third party supplier.

BBA HAPAS System

The Ultracrete Ironwork System represents a unique approach to the specialist aspect of ironwork reinstatements. The system is fully BBA/HAPAS approved as a first time permenant repair to footways and class 2, 3 & 4 carriageways. This has the advantage of providing the contractor with no split liability, with an anticipated service life of 5 years.

The system comprises of:

- Ultracrete Envirobed Cement Based Mortar (contains recycled glass)
- Ultracrete PY4 Polyester Mortar
- Ultracrete M60 **Bedding Mortar**
- Ultracrete QC10 Backfill Concrete
- Ultracrete SCJ Cold Joint Sealer
- Ultracrete IRR Cold Lay Macadam, Type 2, 3 & 4 Roads.

The illustrations demonstrate the steps from initial breakout to the final surface reinstatement. With the use of the BBA/HAPAS approved Ironwork Reinstatement System, highways can be open in as little as 1 hour.





























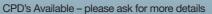
Whether at contractor or at early planning stage, our Site Support Team is always available for one-to-one dedicated assistance tailored to suit your needs. Our help with problem solving, practical use and product performance, ensures that you have the ability to experience our products at your convenience and guarantees confidence of application throughout the duration of your project.

Material Awareness & Site Support











	BBA HAPAS Ironwork Reinstatement System							& Refurbisl	hment Con	cretes and	Resins, Priming, Curing & Bonding Agents				
PRODUCT	Envirobed HA104	PY4	M60	QC10	SCJ	Instant Road Repair	GPR	MC	HF	EP-R9	FTC	PY5	SP	AR	
NAME	High Performance Mortar for Bedding Ironwork	Polyester Resin Fast Setting Bedding Mortar	Rapid Strength Bedding Mortar	Rapid Strength Concrete	Spray Applied Bitumen Cold Joint Sealer	Instant Road Repair Permanent Cold Lay Macadam (PCSM)	General Purpose Repair Mortar	Large Section Repair Flowable Concrete	High Flow Precision Grout	High Strength Epoxy-Resin Mortar & Primer System	Fast Set High Strength Concrete	Flowable Rapid Setting Polyester Resin Mortar	Slurry Primer	Acrylic Primer / Curing Agent	
PRODUCT INFORMATION	A revolutionary next generation, environmentally friendly alternative to resin based mortars for the installation of ironwork conforming to the DTI Design Manual for Roads and Bridges: Mortars for bedding ironwork HA 104/02. High strength mortar for depths between 10-50mm. Contains recycled glass and forms part of the Ultracrete BBA/HAPAS Ironwork Reinstatement System.	A resin mortar specifically designed for the installation of ironwork and other street furniture in heavily trafficked locations. For depths between 5-50mm. Forms part of the Ultracrete BBA/HAPAS Ironwork Reinstatement System.	Rapid set manhole frame bedding mortar, 10-75mm depth, designed for the fast installation of street ironwork. Conforms to the Department of Transport Design Manual for Roads and Bridges HD 27/94 Vol 7 Sec 2. Forms part of the Ultracrete BBA/HAPAS Ironwork Reinstatement System.	Designed for thick section concrete repairs, backfill of carriageway ironwork, haunching, reinstatements, post and barrier erection, 20-250mm depths. Forms part of the Ultracrete BBA/HAPAS Ironwork Reinstatement System.	Seals vertical road edges of footway and ironwork reinstatements. Forms part of the Ultracrete BBA/HAPAS Ironwork Reinstatement System.	Designed for permanent reinstatement in footways, pot holes and manhole surrounds. Can also be used as a high quality temporary macadam. Forms part of the Ultracrete BBA/HAPAS Ironwork Reinstatement System.	General Purpose cementitious, hand applied, concrete repair mortar ideal for both vertical and overhead repairs. Should be mixed thoroughly in a forced action mixer for 3-5 minutes.	A super fluid micro concrete for large section repairs. It is a very dense low permeability material, which does not suffer damage from the frost attack and freeze/ thaw conditions.	A high flow precision grout to HA 2601. It is a very dense low permeability material, which does not suffer damage from frost attack and freeze/thaw conditions.	Is a high strength two part epoxy resin mortar and primer system, containing a blend of specialist sands and fine fillers to provide exceptional strength, bond and chemical resistance, accommodating depths from 5mm-50mm.	A high strength fast set concrete, which will accommodate small and large repairs from 10mm-150mm in depth. Can be open to foot traffic in as little as 4 hours.	Flowable material for filling, bonding and anchoring bolts and ironwork.	An excellent general purpose, slurry priming substance for most cementitious mortars and concretes.	A concentrated and stable acrylic polymer emulsion, which is diluted with clean water on site before application.	
RECOMMENDED APPLICATIONS	Manhole framesGully gratesDuctile ironwork	 Manhole frames Gully Grates Kerbs Street Furniture Ductile ironwork 	 Street ironwork Bonding of setts Bonding of flags Emergency repair Bedding of Kerbs 	Manhole frames Post erection Barrier erection Sign erection	 Prevent water ingress instantly Sealing vertical edges of reinstatement 	 Approved for the permanent reinstatement of openings in carriageways type 2, 3 & 4 carriageways, footways, footpaths and cycle paths Private drives Potholes 	General patch repairs to concrete structures	 Large section repairs Structural repairs Highway Structures 	 Bridge bearing grout Stanchion base plates Machine beds Parapet legs 	 Bonding coping stones Arris repairs Concrete repair Repair to floors, which are subject to wear and tear 	 Patch repair to external concrete surfaces Patch repair to airport runways Patch repair to internal floors Bridge deck repairs 	 Sealing surface cracks Anchoring dowel bars Street furniture Traffic & street signs 	Primer system for cementitious materials	Curing agent on mos cement based products Can be used as a bonding agent for bedding intermediary layers	
FEATURES & BENEFITS	Environmentally friendly alternative to resin Early tensile strength provides significant resistance to heavy trafficking Can be used in wet weather conditions Conforms to the DTI Design Manual for Roads and Bridges: Mortars for Bedding Ironwork HA 104/02 which states that the tensile strength of a mortar should exceed 5N/mm² in 3 hours Open to traffic in 1 hour Contains recycled glass.	 Rapid strength gain Excellent flexural and tensile strengths Open to traffic in 40 minutes Conforms to the DTI Design Manual for Roads and Bridges: Mortars for Bedding Ironwork HA 104/02 which states that the tensile strength of a mortar should exceed 5N/mm² in 3 hours. 	Open to traffic in 60 minutes	 Shrinkage compensated Versatile No independent curing agent required. 	 Prevents water ingress instantly Clean, ozone friendly No waste Simple to use 	 Rapid repair time Only one visit required Open to traffic instantly Environmentally friendly BBA/HAPAS approved to first time repairs in footways, cycle tracks and Class 2, 3 & 4 carriageways. 	 Build: 50mm vertically, 20mm overhead. 10mm-100mm horizontally Polymer modified Complies with HA. BD27/86. 	 Exceptionally fluid 50-175mm build Exceptionally low shrinkage Compatible with cathodic protection systems 	 High strength High Flow Can be pumped or poured 10-100mm gap fill Shrinkage compensated Initial set 8 hours, final set 11 hours Complies with HA 2601. 	 High strength Build 5mm-50mm Excellent chemical resistance Waterproof Speedy to apply Primer included. 	 Conforms to caluse 1704.6 control of Alkali silica Reaction High early strengths Economical Can be open to foot traffic after 4 hours dependant on temperature 4mm aggregate. 	 Rapid strength gain Excellent flexural and tensile strengths Application at 0°C possible Rapid Setting. 	 2 part component slurry primer Excellent bond strength Flexible consistency 	 Easy to apply Safe to use High dry & wet adhesion Durable Reduces permeabilit Versatile Cost Effective Low temperature film formation. 	
TECHNICAL DATA ALL TESTS CARRIED OUT AT 20°C	Compressive Strength 3hrs – 50.0N/mm² Tensile Strength 3hrs 5.8N/mm² Flexural Strength 3hrs – 9.8N/mm² Yield 9.86 litres, 102 bags/m³ Packaging 20kg & 2.5 litre poly bottle Colours Light Grey	Compressive Strength 2hrs – 70N/mm² Tensile Strength 2hrs 7.83N/mm² Yield 12.5 litres, 80 bags/m³ Packaging Two part component, 25kg tub Colours Golden Brown	Compressive Strength 1hr – 20N/mm² Tensile Strength 1hr 1.13N/mm² Yield 12.5 litres, 80 bags/m³ Packaging 25kg bag or tub Colours Brownish Grey	Compressive Strength 2hrs – 20N/mm² Yield 12 litres Packaging 25kg bags or tubs Colours Grey	Packaging 750ml Aerosol Can Colours Black	Packaging 25kg bag or tub Colors Blacks Smm, 6mm & 10mm. Red 6mm	Compressive Strength 28 days – 50N/mm² Tensile Strength 28 days 3.87N/mm² Yield 12.2 litres Packaging 20kg bag Colours Grey	Compressive Strength 3 days – 38N/mm² Tensile Strength 28 days 4.2N/mm² Flexural Strength 28 days 8.9N/mm² Yield 13 litres Packaging 25kg bag Colours Grey	Compressive Strength 28 days – 70N/mm² Flexural Strength 28 days 9.5N/mm² Yield Flowable 13.25 litres, Fluid 13.50 litres Packaging 25kg bag Colours Light Grey	Compressive Strength 24hrs – 38N/mm² Tensile Strength 7 days 15.6N/mm² Flexural Strength 7 days 22.4N/mm² Yield 10kg pack - 4.8 litres, 22kg pack - 9.5 litres Packaging 10kg or 22kg pack Colours Grey	 Compressive Strength 4hrs – 13M/mm² Tensile Strength 28 days 4N/mm² Flexural Strength 28 days 4N/mm² Yield 12.5 litres Packaging 25kg polythene bag Colours Grey 	Compressive Strength 1hr – 84.31N/mm² Tensile Strength 1hr – 7.28N/mm² Flexural Strength 1hr – 21N/mm² Yield 13 litres, 77 packs/m³ Packaging 25kg tub Colours Dark Brown	 Yield 5m² per pack Packaging 7.5kg pack comprising of 5kg powder and 2.5kg liquid Colours Dark Grey 	 Yield Single coat 0.15 litres/m2 (concrete floor) Single coat 0.2 litres/m² Packaging 5 litre bottle / 200 litre kegs Colours White / Clear 	
INDUSTRY STANDARD	BBA Entire HAPAS CONTINUE TO SAIDS Agreened Continue Agreement Continue	BBA BRITISTON HAPAS ROBINST TO BRITIST TO BR	BBA BRITIST OF THE PASS ROUGH Agricust Conticae	BBA BRITISON OCTOBACION TO SERVICE AND A PA S P	BBA SRISSO CONTRACT TO SEASON Agreed Centural Agreed Centural	BBA BREIGHT HAPAS Rabin and Bright Agreed Certificat	Fully complies with Department of Transport BD27/86	Complies with HA. BD27/86	Complies to specification for "Highways Works" Clause 2601		Complies to clause 1704.6 Control of Alkali Silica reaction				

				Highway	Reinstate	ement Ma	aterials &	Ancillary	/ Product	s			Streetscape Mortars, Grouts & Pointing Cements, Joints & Surface Materials				
RODUCT	M45	M90	QC6	Flowcon	FP1	Instaband	Line Marking Paint	Instaline	Instagrip	Post Fix	RSC	EPM995	Pro-Bed HS	Pro-Prime	Flowpoint	Cempoint	Jointfix
AME	Rapid Strength Bedding and Repair Mortar	All Purpose Fast Set Mortar	Rapid Set Surfacing Concrete	Self Compacting Concrete	Rapid Setting Patch Repair	Skid Resistant Overbanding Tape	Line Marking Paint	Thermoplastic Road Marking	Anti Skid Patch Repair	Rapid Hardening Post Fix Concrete	Extra Rapid Setting / Hardening Cement	Emergency Road Patch Repair System	Fine Bedding Concrete	Slurry Primer	Rapid Set Grout	Gun Injected Mortar	Liquid Seale Sand Stabili
PRODUCT INFORMATION	Super fast high grade mortar for patching kerbs, bedding manhole frames and other street ironwork, 10 - 75mm depth. Conforms to the Department of Transport Design Manual for Roads and Bridges HD 27/94 Vol 7 Sec 2.	General purpose rapid set mortar, 10-75mm depth for a wide variety of general construction applications.	Designed for repairing surfaces in pedestrian areas. This innovative product has been designed to set quickly to prevent accidental damage or vandalism. Can be utilised in depths between 12-100mm.	A general-purpose flowable concrete, ideal for most general concreting applications.	A two component rapid repair mortar, which because of it's rapid setting qualities makes it an ideal repair solution for small areas where prompt access is required.	A 40mm wide 3mm thick polymer modified bituminous sealing skid resistant overbanding tape for the sealing of cracks or joints up to 5mm wide.	A solvent based marking paint, ideal as an effective and quick method of line or spot marking on road repairs. Semi permanent formula lasts at least 3 months after application under normal wear conditions.	Designed for reinstating small areas of line marking after maintenance work, car, parks, carriageways and factory floors.	Designed for the repair of existing anti-skid patches on carriageways and floors.	A rapid hardening concrete containing special cements and a 10mm graded aggregate. Has been formulated for use as a sub-surface rapid set concrete. Holds the post/fixing in place instantly.	A fully premixed cement containing approved chemical additives that accelerate the hardening process, a must for reinstating concrete areas where early trafficking is essential.	A high performance, resin based emergency road patch repair system. Specifically engineered for the refurbishment of surfaces compromised by road traffic incidents. Its fast curing time ensures that areas treated with EPM995 can be trafficked as early as 15-30 minutes after application.	street demands of the BS7533 specification. Is shrinkage compensated and creates a perfect base on which to lay natural stone setts, concrete and stone		A rapid set grout with high fluid consistency for early trafficking that conforms to street demands of the BS7533 specification.	mortar which conforms to the stree demands of the BS7533 parts 7 & 12.	surface and s t sealer. With s properties wh
					F		A Comment of the Comm			Nuneaton AS (E) PM 42 (N) Court The state of the stat							
ECOMMENDED PPLICATIONS	Levelling of street ironwork Emergency concrete road repairs Hand profiled kerb repairs Tidal repair projects	 Bedding of street ironwork General repairs 	Reinstatements in concrete drives and pavements Around street furniture Suitable for concrete fillets or picture frames	ldeal for applications requiring a consistent quality mix without waste and inconsistency of site mixing raw materials	 Ideal for small patching Effective repair to steps, eliminates trip hazards 	 Application to asphalt or macadam to prevent water ingress and further fretting 	For temporary line marking on many surfaces such as line marking on car-parks, carriageways, factory floors and pavements	Car-parks, roads and carriageways, any replacement/ repair area needing permanent repair	 Anti skid patch repairs on pedestrian crossings, junctions, roundabouts, footbridges, subways and car-parks Ideal as an anti-skid surface on steel road plates and manhole covers 	 Fixing of sign posts Fixing of road signs Fixing of fence posts Haunchings Street lighting columns Street Furniture Speed cameras Road side barriers 	Concrete slab patching Patch repairs to cable box floors Repairs to road crossings Repairing/fixing speed camera bases	Repairing road damage caused by spillage, fire, corrosion, depression, vehicle gouges and other traffic incident causes	■ Bedding of paving elements where rigid or bound construction is required.	 Priming between layers where rigid or bound constructed pavement design is required Underside of all types of paving elements Substrate or road base. 	■ Rapid pointing of granite setts, stone paviours, bollards and balustrading where a rigid or bound construction is required.	■ Re-pointing of brick work, blockwork and stonewalling. Pointing granite setts, flags and paviours.	Town cerpedestris schemes taxi-way driveway forecourt paviours flags, na concrete paving.
EATURES & ENEFITS	 Rapid strength gain Ideal for low temperature working Consistent, easy to use material Open to traffic in 30 minutes Suitable for all ironwork to BS EN 124 Shrinkage compensated. 	Cost effective Versatile Sets in 15 minutes Suitable for all ironwork conforming to BS EN 124 Shrinkage compensated Open to traffic in 90 minutes.	 Fast setting Versatile Shrinkage compensated Excellent workability. 	 High strength Flowable Pre-bagged Accommodates depths of 20mm 200mm (depending on application). 	Depths from 10mm – 100mm – 100mm – 100mm High Strength Easy to mix on site Suitable for both internal and external use Pedestrian traffic in 1 hour Vehicle traffic in 2 hours	Clean and easy to use, fast installation Prevents water ingress instantly Skid resistant, traffic immediately Environmentally friendly, uses recycled raw materials Suitable for footways, cycle tracks and class 2,3 & 4 carriageways Conforms to SROH 2001.	 Economical No waste Excellent adhesion No chlorinate solvents Durable. 	 Clean, clear, crisp pre-formed markings Asphalt & macadam compatible Apply in hot or cold conditions Skid resistant Reflective. 	Resinous repair system Easy to use Quick to apply Lasting results Trafficked in 1-2 hours.	Acid resistance Economical Sets in 15 minutes Workability 5-10 minutes Small contractor friendly units Professional grade.	Exceptional strength gain Up to 20N/mm2 can be achieved in one hour Versatile – can be mixed to produce concrete or mortar Early opening to traffic.	Conforms to the highways clause 995 Will repair fire and other surface damage Will repair surface loss due to spillage Will permit trafficking as early as 15-30 minutes after application reducing traffic congestion Non - Toxic.	 Small contractor friendly units Open to light foot traffic after only 12 hours and vehicular traffic 	 Provides an exceptional bond between all types of stone surfaces Only needs the addition of water Can be applied to the stone at a thickness of 1mm & 2mm immediately prior to placement Conforms to BS7533 parts 7 & 12. 	Flowable material Rapid Setting Exceptional bond strength Shrinkage compensated Mixes quickly on site with water Initial set after 15 minutes at 20°C Conforms to BS7533 parts 7 & 12 Ideal for large and small scale projects Open to foot traffic in 1 hour and vehicular traffic in 4 hours.	Mixed easily on site with water Conforms to BS7533 parts 7 & 12 Excellent compatibility Resistance to freeze/thaw weather conditions Shrinkage compensated Fast and easy application.	Stops los jointing s through washing sweeper Prevents ingress a substrate damage Reduces from oils foodstuff general s Maintain elasticity in flexibbl construct Inhibits w moss grows Reduces adhesion chewing
ECHNICAL ATA LL TESTS CARRIED JT AT 20°C	Compressive Strength 45minutes – 20 N/mm² Tensile Strength 1 day – 1.93 N/mm² Yield 12.5 litres, 80 bags/m³ Packaging 25kg bag or tub Colours Light Grey	Compressive Strength 2hrs - 20 N/mm² Tensile Strength 1 day - 1.82 N/mm² Yield 12.5 litres, 80 bags/m³ Packaging 25kg bag or tub Colours Light Grey	Compressive Strength 1 day – 22.79 N/mm² Tensile Strength 1 day – 1.88 N/mm² Flexural Strength 1 day – 4.96 N/mm² Yield 12.5litres Packaging 25kg Bag or tub Colours Grey	Compressive Strength 1 day - 20 N/mm² Yield 12 litres Packaging 25 Kg Bags Colours Grey	Compressive Strength 1 day – 28N/mm² Tensile Strength 1 day – 4.19 N/mm² Flexural Strength 1 day – 6.33 N/mm² Yield 5 Litres Packaging 10Kg Bucket containing 9kg powder & 1 litre Polymer Additive Colours Grey	Packaging 10 metres Long x 40mm Wide Colours Black	 Packaging 750ml aerosol cans Colours White, Yellow, Red, Blue & Green 	 Packaging 5 metres x 100mm roll (5 rolls per pack) Colours Yellow, White and Prim Rose 	■ Packaging 1.5m² pack = 18kg approx Pack Includes: 2kg Resin 15kg Aggregate 1 x Metal resin applicator 1 x pair gloves ■ Colours Grey, Buff, Red, Green, Black	Compressive Strength 1 day - 20 N/mm² Yield 12 litres Packaging 25kg bags Colours Brownish Grey	Compressive Strength 1 day – 27 N/mm² Yield 11.5 litres Packaging 25Kg Bag or Bucket Colours Dark Grey	Compressive Strength 14 N/mm² Yield 1m² (The coverage of each pack is dependant on the depth) Packaging 20kg poly tubs Colours Base: Khaki; Activator: Brown	Compressive Strength 1 day - 20 N/mm² Adhesion Strength (without primer) 28 days - 1.25 N/mm² Adhesion Strength (with primer) 28 days - 2.18 N/mm² Yield 12.9 litres Packaging 25kg Bags Colours Grey	Packaging 20 kg bags Colours Grey	Compressive Strength 1 day – 14 N/mm² Tensile Strength 1 day – 1.69 N/mm² Flexural Strength 1 day – 4 N/mm² Yield 13.9 litres Packaging 25kg Bags Colours Light Grey or Charcoal, other colours available on request	■ Compressive Strength 28 days – 49.6 N/mm² ■ Yield 15 litres ■ Packaging 20kg Bags ■ Colours Natural Grey, Light Brown, Yorkstone	
IDUSTRY Fandard	Conforms to Department of Transport Design Manual for Roads &	Compatible with all ironwork conforming to BS EN 124						Complies to BSEN 1436	Conforms to Highways Works Clause 924			Conforms to Highways Agency Clause 995	Conforms to BS7533 parts 7 & 12	Conforms to BS7533 parts 7 & 12	Conforms to BS7533 parts 7 & 12	Conforms to BS7533 parts 7 & 12	