



LEADERS IN CEMENT AND EPOXY TECHNOLOGY



BUILDING SOLUTIONS



DON'T RISK IT, USE EPIREZ®



ITW Polymers & Fluids offers the experience of over 55 years in research and manufacture of specialty Epirez products for concrete protection and renewal. Epirez was founded in 1955 and the first product formulations pioneered the Australian development of epoxy based adhesives and coatings for use with concrete.

Since then, Epirez products have continued to break new ground in epoxy and allied technology development for architects, engineers, consultants, specifiers, users and contractors in the Australian building and construction industry.

Epirez offers a complete range of chemical construction products and proven technologies using epoxy and cement based chemistry.

These products find problem solving applications in:

- Concrete protection and repair
- Concrete floor coatings and toppings
- Halting concrete rebar corrosion
- Machinery and rail grouting
- Structural concrete bonding
- Expansion joint sealing
- Marine concrete pile protection and repair
- Heritage building restoration
- Waterproofing concrete tanks, roofs, dams and tunnels
- Concrete wall coatings
- Mining repair and protection
- Sewer renewal

The Epirez Development and Manufacturing facilities are located in Sydney, New South Wales. Here we also have our Administration offices, Chemical Material Testing and Engineering Laboratories. In all states we have fully staffed and trained Sales and Technical Service personnel to meet the needs of the industry around Australia.

Proven quality and technical service are the hallmarks of Epirez. Our technicians and engineers are concrete specialists. Epirez Technical Sales Offices, Authorised Distributors and Approved Applicators throughout Australia are ready to assist you with proven Epirez products engineered in Australia for engineering, construction, maintenance and renewal projects.

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Mortar Binders

Acid Resistant Epoxy Binder (133AR)

DESCRIPTION

A specifically formulated acid resistant epoxy binder combined with selected aggregates to produce a trowel applied chemical resistant topping for concrete. It will resist a wide range of acids, including 98% sulphuric acid, as well as alkalis and solvents.

APPLICATIONS

Chemical bunds, high acid resistant floors, waste water treatment pits and mine processing plants.

KEY FEATURES

- Resists 98% Sulphuric acid
- Monolithic protection
- Excellent mechanical properties
- Handles foot traffic in 24 hours



Product Code	Size
E901345	4L
E901344	20L

General Purpose Epoxy Mortar Binder (133)

DESCRIPTION

A multi purpose epoxy binder that can be either an epoxy mortar or concrete binder. It can bond new to old concrete due to its hydrophobic properties and can be combined in various ratios with mortar aggregates to produce high strength mortars and toppings. The product is potable water approved and can be used in low temperature applications.

APPLICATIONS

Concrete structural repairs, structural bonding of new to old concrete grouting of load bearing bolts and supports in concrete and floor topping.

KEY FEATURES

- Multi-purpose solventless binder
- Sets under water
- Aggregate extendible



Product Code	Size
E901333	1L
E901332	4L
E901334	20L

Non-Sag Epoxy Mortar Binder (633)

DESCRIPTION

A solventless, non-sag epoxy binder suitable for applications to overhead, vertical or inclined surfaces. Combines the properties of the General Purpose Epoxy Mortar Binder with a non-sag consistency.

APPLICATIONS

Bonding steel and timber to concrete, bonding precast concrete units, under-water/splash zone repairs, grouting, concrete repair and bonding applications on vertical and overhead surfaces.

KEY FEATURES

- Sets under water
- Potable water approved
- Non-sag for vertical or overhead surfaces
- High mechanical and bond strengths



Product Code	Size
E906334	1L
E906332	4L
E906333	20L



Binder Selection Chart

	Two Components	Three Components	Compressive Strength MPa	Pourable	Trowellable	Non-Sag	24 Hour Cure At 25° C	Chemical Resistant	Acid Resistant	Potable Water Approval AS4020
Acid Resistant Epoxy Binder (133AR)	●		65	●			●	●	●	
Non-Sag Epoxy Mortar Binder (633)	●		95		●	●	●	●		●
General Purpose Epoxy Mortar Binder (133)	●		95	●			●	●		●
GP Epoxy Mortar Binder / Aggregate = 1:1		●	85	●			●	●		●
GP Epoxy Mortar Binder / Aggregate = 1:2		●	80	●			●	●		●
GP Epoxy Mortar Binder / Aggregate = 1:3		●	75		●		●	●		●
GP Epoxy Mortar Binder / Aggregate = 1:4		●	55		●	●	●	●		●
GP Epoxy Mortar Binder / Aggregate = 1:5		●	50		●	●	●	●		●

Concrete Repair

Multi-purpose Epoxy Concrete Repair (MULTI II)

DESCRIPTION

A general purpose, epoxy patching compound suitable for knifing or troweling onto vertical and overhead surfaces. It can be used for bonding or patching applications.

APPLICATIONS

Repairing damaged or honeycombed concrete and bonding ceramic, metal, stone, or wood to concrete.

KEY FEATURES

- Concrete grey in colour
- Equal part mix
- Excellent adhesion
- Cleans up in water



Product Code	Size
E992251	3kg
E992250	12kg

Crack Repair Epoxy Sealer (123)

DESCRIPTION

A solventless, low viscosity epoxy sealer and crack repair material that is designed with a convenient mixing ratio and a 300ml split pack for capillary sealing cracks.

APPLICATIONS

Primer for porous concrete, impregnation of honeycombed concrete, and repairing cracked concrete.

KEY FEATURES

- Bonds to damp surfaces
- Low viscosity aids penetration
- Capillary action for crack sealing
- Easy mix ratio



Product Code	Size
E901238	300ml
E901233	1.5L

Highway Patch

DESCRIPTION

A hydraulic cement material that provides high early strength, high bonding strength and precision non-shrink performance. It can be extended by adding up to 60% pea gravel without forming excessive voids, reducing workability or long term durability.

APPLICATIONS

Highways, bridges, airport runways, ramps, and fast concrete repairs.

KEY FEATURES

- High bond strengths
- Very rapid strength gains
- No noxious fumes or odours



Product Code	Size
E991605	15kg

Ezipatch Superset

DESCRIPTION

A specially formulated, quickset cement based patching and repair mortar.

APPLICATIONS

Pavements, footpaths, factory floors, concrete ramps, emergency concrete repairs.

KEY FEATURES

- Single pack
- Non toxic
- Fast setting
- Economical



Product Code	Size
E991617	20kg

Waterproof Plug

DESCRIPTION

A precision, instant waterproof cement composition that stops high pressure leaks. The rapid setting, high strength properties allow it to be used to fill and seal active leaks in a concrete surface.

APPLICATIONS

Tunnels, cable vaults, manholes, elevator shafts, power stations and water tanks

KEY FEATURES

- Waterproof plug
- Non toxic
- Fills and seals active leaks
- Instant waterproofing protection
- Rapid setting - 4 minutes to 6 minutes



Product Code	Size
E991613	5kg
E991612	15kg

Ezirender High Build

DESCRIPTION

A versatile polymer modified lightweight repair mortar enabling high build (up to 100mm) concrete repairs in both overhead and vertical applications.

APPLICATIONS

High rise facade repairs, cooling tower repairs, soffit repairs, bridge repairs.

KEY FEATURES

- Single pack
- Potable water approved
- Low permeability
- High strength to weight ratio



Product Code	Size
E991462	20kg
Ezirender HB Primer	
E991469	4L

Concrete Repair

BEFORE



AFTER



Concrete Repair Selection Chart

	Epoxy	Cementitious	Compressive Strength MPa	Application Thickness 25mm	Application Thickness 50mm	Application Thickness 100mm	Cure Time 2 Hours At 25°C	Cure Time 24 Hours At 25°C	Horizontal Application	Vertical Application	Overhead Application
Multipurpose Epoxy Concrete Repair (MULTI II)	•		60		•			•	•		•
Crack repair Epoxy Sealer (123)	•							•	•	•	
Highway Patch		•	58		•		•		•		
Ezipatch Superset		•	41	•				•	•		
Ezirender High Build		•	45			•				•	•
Waterproof Plug		•	40		•			•	•	•	

Epoxy Grouts

Chockfast® Red

DESCRIPTION

A three component, general purpose high strength, solventless epoxy grouting compound which is used to grout larger machinery and to support soleplates and all types of foundation designs. Its low exothermic reaction allows it to be used for very deep pours, up to 460mm, and it is manufactured under licence for ITW Polymer Technologies.

APPLICATIONS

Grouting of a variety of machinery bases, deep foundations, pipe supports, rail anchoring and grouting.

KEY FEATURES

- Impervious to oil
- Deep pours achievable - 2.2 metre length pours
- Maximum effective load bearing area
- Superior resistance to fatigue



Product Code	Size
D11950	94kg

Chockfast® Orange

DESCRIPTION

A three component, high strength, 100% solids epoxy grouting compound. Chockfast Red SG has extremely high compressive strength and negligible shrinkage, making it ideal for the final positioning of critical aligned machinery within close tolerances. This product is manufactured under licence from ITW Polymer Technologies.

APPLICATIONS

Grouting of a variety of machinery bases and large anchor bolts.

KEY FEATURES

- Impervious to oil
- Rapid set
- Unaffected by weathering and freeze / thaw cycling
- Superior resistance to fatigue



Product Code	Size
D11900	3.4kg

General Purpose Epoxy Grout (II)

DESCRIPTION

A high strength epoxy based grout designed for grouting in tight clearances where maximum flow and highest performance are essential. It can be applied in all types of weather conditions.

APPLICATIONS

Machinery grouting, structural anchoring of bolts, inserts, rebar, rail anchoring, and grouting.

KEY FEATURES

- High moisture resistance
- High mechanical strength
- Excellent flow characteristics
- Grouts machinery in final aligned position



Product Code	Size
E991584	6kg
E991582	30kg

Epoxy Grouts

High Performance Epoxy Grout (280S)

DESCRIPTION

A high strength epoxy based grout system offering longer work time characteristics for higher temperature conditions and deeper pours. It has superior mechanical properties and can be extended on site with Epoxy Grout Aggregate Extender (QA30) for applications requiring deep pours and when the temperature is abnormally high.

APPLICATIONS

All weather grouting, deep foundation grouting, structural anchoring of bolts, inserts and rebar.

KEY FEATURES

- Pour in place installation
- Low exotherm - Long pot life
- Excellent chemical resistance
- Bonds to damp surfaces



Product Code	Size
E991199	30kg

Heavy Duty Backing Grout (5137)

DESCRIPTION

A non-shrink, heavy duty epoxy backing grout that will flow into fine voids and cavities down to 5mm and harden to produce an extremely tough, impact resistant backing.

APPLICATIONS

Long life backing of crushing equipment, high strength bearing supports, rail grouting of machine bases and bridge footings.

KEY FEATURES

- Non-shrink for high tolerance applications
- Easy mixing (no aggregate)
- Exhibits excellent impact and vibration characteristics
- High compressive strength



Product Code	Size
E951377	10kg

High Early Strength Epoxy Grout (5137HES)

DESCRIPTION

A non-shrink, heavy duty epoxy grout with faster strength development than Heavy Duty Backing Grout that will flow into fine voids and cavities down to 5mm. It is recommended for applications where rapid cure is required.

APPLICATIONS

Heavy duty rail grouting, machine base grouting, high strength backing and grouting of bridge footings.

KEY FEATURES

- Fast strength development
- Cooler temperature applications
- Strong bond to metal and concrete
- Flowable for easy placement



Product Code	Size
E951327	10kg



Epoxy Grouting Selection Chart

	Compressive Strength MPa	Clearance Down to 5mm	Up to 85mm Depth of Pour	Up to 460mm Depth of Pour	Extended Working Time	Hot Weather Installation	Precision Non Shrink	6 Hour Cure at 25°C	24 Hour Cure at 25°C	Pourable	Chemical Resistant	
Chockfast® Red	105		●	●	●	●	●		●	●	●	Low Exotherm, Deep Pour
Chockfast® Red SG	125		●		●	●	●		●	●	●	Thin Pour, Rapid Set
High Performance Epoxy Grout (280s)	105	●	●		●	●	●		●	●	●	Hot Weather, Deep Pour
General Purpose Epoxy Grout II	100						●		●	●	●	All Weather Application
Heavy Duty Backing Grout (5137)	124	●					●		●	●	●	High Flow Application
High Early Strength Epoxy Grout (5137HES)	100	●					●	●		●	●	Cold Weather Application

Episet XL

DESCRIPTION

Episet® XL Adhesive is part of the EPIREZ® range of structural adhesives for use in construction and industry. It combines ease of mixing and application with high strength performance, and features a non-sag, paste like consistency before hardening. Episet® XL Adhesive is a rapid set product and is especially suited for adhesive bonding in cold weather conditions.

APPLICATIONS

Excellent adhesion to dry or damp concrete, Grouting of rebar and threaded studs, Bonding highway markers, Suitable for cored holes

KEY FEATURES

- 600ml cartridge
- 100% solids epoxy
- Non-sag
- Tested to ASTM E1512 and ASTM E488



Product Code	Size
E907121	600ml

Episet Structural Adhesive (8242)

DESCRIPTION

A general purpose structural epoxy adhesive formulated for a variety of applications in the construction industry. A non-sag paste-like product that provides excellent adhesion to most surfaces with gap filling qualities. Available in 600ml gun grade cartridges, 4L and 20L kits.

APPLICATIONS

Joining and repairing concrete pipes, bonding metal, wood stone and other masonry to concrete, repairing damaged or honeycombed concrete, grouting and waterproofing and bonding highway markers.

KEY FEATURES

- Equal part mix
- Gap filling properties
- Cleans up in water
- High modulus structural adhesive



Product Code	Size
E991675	600ml
E982427	4L
E982428	20L

Episet Dual Barrell Cartridge Gun

DESCRIPTION

An easy to pull dual barrel cartridge gun for use with Episet XL and Episet Structural Adhesive (8242).

KEY FEATURES

- Easy trigger release to reduce flow through
- Easy trigger pull reduces fatigue



Product Code	Size
E991649	600ml



Volume of Epoxy Required (Litres) Per 100 Inserts

Based on Hole Diameter of 1.5 x Insert

		Hole Depth						
		75	100	125	150	200	250	300
Insert	M10	0.74	0.98	1.23	1.47			
	M12		1.41	1.77	2.12	2.83		
	M16		2.51	3.14	3.77	5.03	6.28	
	M20				5.89	7.86	9.82	11.78
	M22				7.13	9.50	11.88	14.26
	M24					11.31	14.14	16.97
	M32						25.13	30.16

Cementitious Grouts

Supaflow HF Grout

DESCRIPTION

A free flowing cement based grout offering high performance and non-shrink characteristics. A dual expansion Class C grout that is suitable for pumping and pouring over a large range of application consistencies and temperatures. Achieves a high compressive strength of 105MPa. Can be extended with 10mm aggregate to a concrete grade.

APPLICATIONS

Heavy duty base plate grouting, crane rail supports, structural column grouting and structural repairs.

KEY FEATURES

- Single pack
- Excellent flow for easy placement
- High early strength
- Versatile applications - trowel, pour or pump



Product Code	Size
E991620	20kg

Hot Weather Class C Grout (380C)

DESCRIPTION

A cement based non-ferrous, non-shrink grout with extended work time for all general purpose grouting requirements, particularly in hot climates.

APPLICATIONS

Machine baseplates, bridge bearings, underpinning and structural columns.

KEY FEATURES

- Single pack
- Extended working time
- Hot weather applications
- Can be pumped or poured



Product Code	Size
E991618	20kg

Epirez Instant Grout

DESCRIPTION

A fast setting, special cement based non-metallic, non-shrink grout with enhanced chemical resistance.

APPLICATIONS

Precision grouting in cold conditions, fast patching and grouting, rapid anchoring.

KEY FEATURES

- Single pack
- Very rapid strength gain
- Chemical resistance superior to concrete
- Precision non-shrink in cold conditions



Product Code	Size
E991609	15kg

Epirez Superstrength Grout

DESCRIPTION

A special cement based, non-metallic, non-shrink Class Z grout that is designed for multi-use in all construction situations requiring precision grouting. Achieves high compressive strength of 93MPa.

APPLICATIONS

Large, heavy operating equipment, structural columns, anchors or fixings, precast and prestressed panels and rail grouting.

KEY FEATURES

- Single pack
- High compressive strength
- High early strength
- High effective bearing area



Product Code	Size
E991620	20kg

Class A Superstrength Grout

DESCRIPTION

A pre-mixed cement based, non-ferrous, non-shrink grout exhibiting good flow characteristics. This extra performance grout offers the advantage of low water requirements and high compressive strength (up to 91MPa).

APPLICATIONS

Column baseplates, anchoring of fixings, bolt holes, underpinning, tilt up panels and other joints.

KEY FEATURES

- Single pack
- High early strength
- High compressive strength
- Wide range of consistencies



Product Code	Size
E991627	20kg

Cementitious Grouts Selection Chart

	Clearance Less Than 25mm	Large Volume Pours	Cold Weather Installation	Hot Weather Installation	Extended Working Time	28 Day Strength Pourable MPa	Dry Pack	Pourable	Fluid	Pumpable
Supaflow HF Grout	●	●				92		●	●	●
Hot Weather Class C Grout (380C)	●	●		●	●	70		●	●	●
Class A Superstrength Grout						45	●	●		
Epirez Superstrength Grout		●				65	●	●	●	●
Epirez Instant Grout			●			41	●	●		

Flooring

Supatuff Floor Coating (FC)

DESCRIPTION

An epoxy coating formulated to provide a smooth semi gloss economical floor finish for concrete. Available in a neutral base only and is mixed with Epirez Colourpacks to achieve a coloured finish.

APPLICATIONS

Workshops, warehouses, chemical and mining industries and sewerage treatment plants

KEY FEATURES

- Easy to apply
- Easy to clean
- Anti-slip finish available
- Economical



Product Code	Size
D11950	94kg

Supatuff Food Grade Finish (FG)

DESCRIPTION

A solventless high build epoxy based coating which provides excellent chemical and abrasion resistance to steel, concrete, timber and other surfaces. The non-taint and low odour properties of the product make it ideal for use on food preparation areas. Available in a neutral base only and is mixed with Epirez Colourpacks to achieve a coloured finish. Product conforms to AS2542.2.2 for "Sensory Evaluation For Secondary Food Contact".

APPLICATIONS

Food and beverage industries, pharmaceutical industries, hospital and catering establishments.

KEY FEATURES

- Tile-like finish
- High gloss
- High film build
- Non-taint to foodstuffs



Product Code	Size
D11900	3.4kg

Supatuff Heavy Duty Epoxy Coating (HD)

DESCRIPTION

A high solids, high build epoxy based coating which provides excellent chemical and abrasion resistance to steel, concrete, timber and other surfaces. It is potable water approved and can be applied at low temperatures (minimum 5°C). Available in a neutral base only and is mixed with Epirez Colourpacks to achieve a coloured finish.

APPLICATIONS

Food and beverage industries, workshops, sewerage treatment plants, warehouses, refineries, chemical and mining industries.

KEY FEATURES

- Potable water approved
- High moisture resistance
- Proven history of protection
- Excellent chemical resistance



Product Code	Size
E991584	6kg
E991582	30kg

Flooring

Supatuff Acid Resistant Coating (AR)

DESCRIPTION

A specifically formulated acid resistant grey coating designed for application to concrete where extreme chemical resistance is required. It will resist a wide range of acids, including 98% sulphuric acid as well as alkalis and solvents.

APPLICATIONS

Chemical process areas, bund and pit coating, paper manufacturers, mining industries, food and beverage industries.

KEY FEATURES

- Monolithic protection
- Broad chemical resistance
- Easily applied by brush, roller or spray



Product Code	Size
D11950	94kg

Supatuff Clear Coat Sealer (SC100)

DESCRIPTION

A solventless low viscosity epoxy floor sealer that can seal both concrete and other Epirez topping systems to provide a clear, hard wearing, easily cleaned finish.

APPLICATIONS

Food and beverage industries, pharmaceutical industries, hospitals, and catering establishments.

KEY FEATURES

- Clear finish
- Solvent free - low odour
- Hygienic seamless finish
- Excellent flow and air release



Product Code	Size
E991584	6kg
E991582	30kg

Safe Step® 100

DESCRIPTION

Single component epoxy ester non-slip floor and outdoor surface coating designed for application in areas of heavy pedestrian traffic. This durable safety coating is both easy and fast to apply and offers optimum adhesion to concrete and metal surfaces. Tested to AS4586-1999 for friction coefficient.

APPLICATIONS

Pedestrian ramps in shopping centres, industrial change rooms, industrial mining and processing plants, stairways, walkways and ramps.

KEY FEATURES

- Excellent anti-slip properties
- Quick drying (can be walked on in 8 hours at 24°C)
- Resistant to chemicals, petrol and oil
- Fire retardant in the cured state
- Single component



Product Code	Size
E991584	6kg
E991582	30kg

Flooring

Safe Step® 550

DESCRIPTION

A high solids, heavy duty, non-slip coating for application in slippery areas to make them safer for both pedestrian and rolling equipment traffic. It provides a tough, non-porous surface that is both chemical and corrosion resistant. Available in neutral base only and is mixed with Epirez Colourpacks to achieve a coloured finish. Tested to AS4586-1999 for friction coefficient.

APPLICATIONS

Wet areas, ramps, stairways and catwalks, platforms, walkways, chemical and mining processing plants.

KEY FEATURES

- High gloss finish
- Excellent anti-slip properties
- Exceptional wear resistance
- Highly chemical resistant



Product Code	Size
D11950	94kg

Easifloor Binder (II)

DESCRIPTION

An improved trowel applied epoxy composite for application to concrete, steel and other subfloors where a chemically resistant and hard wearing floor surface is required. Easifloor Binder requires the addition of an Epirez Colourpack and Epoxy Mortar Aggregate Extender to make up the Easifloor topping system.

APPLICATIONS

Food and beverage industries, pharmaceutical industries, hospitals, catering establishments, textile industries, chemical industries and forming falls to drains & coverings.

KEY FEATURES

- Abrasion resistant
- Fast cure reduces downtime
- Durable, anti-slip finish
- Higher physical properties than concrete



Product Code	Size
E991584	6kg
E991582	30kg

Epoxy Self Levelling Binder (ESL)

DESCRIPTION

A solvent free epoxy, self-levelling mix for application to prepared subfloors where a chemically resistant, extremely hard wearing, seamless floor surface is required*. The ultra smooth finish achieved is easy to clean and attractive in appearance.

APPLICATIONS

Food and beverage industries, pharmaceutical industries, hospitals, catering establishments, textiles industries, chemical industries, showrooms, warehouses and shops.

KEY FEATURES

- Hygienic seamless finish
- Fast application - Minimal downtime
- Super flat surface profile
- Can be applied between 2mm to 4mm in one application



Product Code	Size
D11950	94kg



Flooring Selection Chart

	Typical Thickness (mm)	Roll, Brush, Spray	Self Levelling	Trowel	Solvent Free	Anti-Slip	Food Grade	Chemical Resistant	Abrasion Resistant	Impact Resistant	Coating	Topping	Colours Available
Supatuff Floor Coating (FC)	0.12	●				●		●			●		●
Supatuff HD Epoxy Coating (HD)	0.3	●				●		●	●		●		●
Supatuff Food Grade Finish (FG)	0.4	●			●	●	●	●	●		●		●
Supatuff Acid Resistant Coating (AR)	0.3	●				●		●	●		●		
Supatuff Clear Coat Sealer (SC100)	0.4	●			●			●	●		●		
Safe Step® 100	0.8	●		●		●		●	●		●		●
Safe Step® 550	1.0	●		●		●		●	●	●	●		●
Epoxy Self Levelling Binder (ESL)	0.2		●		●	●	●	●	●	●		●	●
Easifloor Binder (II)	5.0			●	●	●	●	●	●	●	●	●	●

*Epoxy Self Levelling Binder requires the addition of an Epirez Colourpack and Epirez Aggregate for Epoxy Self Levelling to make up the Epoxy Self Levelling Floor system.

EPIREZ® Colourpacks are a blend of reactive pigments to produce a range of colour pastes for incorporation into Epirez Epoxy Flooring Products.

EPIREZ SYSTEMS THAT UTILISE COLOURPACKS

Supatuff Floor Coating (FC), Supatuff Heavy Duty Epoxy Coating (HD), Supatuff Food Grade Finish (FG), Supatuff Water Based (WB), Safe Step™ 550, Epi tread®, Epoxy Self Levelling Binder (ESL) and Easifloor Binder (II)



The following Epirez colours are practical colour equivalents to AS2700 standards:

BE14 = B14 GY1 = N33
 BG13 = X42 RD1 = R63
 GN1 = G23 YW9 = Y14
 GY6 = N44

Ordering Information

DESCRIPTION	Size	PART NO.
GY1 Grey Colourpack	1kg	E991077
GY6 Grey Colourpack	1kg	E991080
BE1 Blue Colourpack	1kg	E991072
YW5 Yellow Colourpack	1kg	E991088
RD1 Red Colourpack	1kg	E991092
BG13 Beige Colourpack	1kg	E991163
BK1 Black Colourpack	1kg	E991097
WE1 White Colourpack	1kg	E991084
GN1 Green Colourpack	1kg	E991075
YW9 Yellow Colourpack	1kg	E991086
BE14 Blue Colourpack	1kg	E991046

Epoxy Casting Kit (8837)

DESCRIPTION

An epoxy based encapsulating and casting system suitable for use in the electrical, casting and tooling industries. The product exhibits excellent electrical properties as well as high impact resistance and dimensional stability. It can be cast up to 15cm thickness.

APPLICATIONS

Encapsulation of power transformers, cable jointing, backing of reinforced tools and jigs, preparation of prototype jigs and moulds.

KEY FEATURES

- Low exotherm
- Superior electrical properties
- Room temperature hardening
- Low mixed viscosity



Product Code	Size
E988372	6kg

Epoxy Electrical Maintenance Kit (324A)

DESCRIPTION

A versatile epoxy based electrical maintenance system. It is supplied in a ready to use repair kit for easy application.

APPLICATIONS

Encapsulating and protecting electronic components, splicing cables, environmental protection of electric motor coils and windings.

KEY FEATURES

- Solventless
- Excellent electrical properties
- Fast turnaround
- Easy to use



Product Code	Size
E903247	2kg



NOTE: Colours shown here are an approximation obtainable using modern printing techniques for visualisation purposes. The colour of the product will vary and final approval should be made with the actual product. You are also reminded that colour variation from batch to batch and from product to product are possible and should be taken into account. Epoxy systems, when exposed to light, are prone to yellowing. This may result in long term colour change, particularly in lighter colours.

Coatings

Epoxy Primer/Sealer (123)

DESCRIPTION

A solvent free, low viscosity epoxy primer and sealer that is designed to offer excellent surface wetting and compatibility with other EpiRez systems. It will bond to both dry and damp surfaces.

APPLICATIONS

Primer for porous concrete, sealer for floor toppings, anti-flash primer for blasted steel, impregnation for honeycombed concrete, primer for concrete repair systems.

KEY FEATURES

- 100% solids - Solvent free
- Extremely low permeability
- Quick cure allows fast recoat
- Low odour



Product Code	Size
E901232	6L
E901231	25L

Epoxy Mastic Metal Primer (215)

DESCRIPTION

A high build epoxy primer specially formulated to provide excellent adhesion and protection to poorly prepared steel surfaces.

APPLICATIONS

Marine installations, oil and chemical industries, mining industries, and steel reinforcement repairs.

KEY FEATURES

- Minimal surface preparation
- Excellent bond strength
- High film build
- High abrasion resistance



Product Code	Size
E902154	1L

Ultra High Build Epoxy Coating (733)

DESCRIPTION

A solventless, ultra high build epoxy coating that can be sprayed from 2mm to 5mm in one coat. For protection and repair of concrete that is subject to flow wear and chemical attack. The product is potable water approved and can be used in low temperature applications.

APPLICATIONS

Marine installations, water reservoirs, waste treatment plants, sewers and stormwater drains, mining and chemical industries.

KEY FEATURES

- Potable water approved
- Low temperature cure
- Spray applied 2mm to 5mm (dry film thickness)
- Excellent adhesion to wet or dry concrete



Product Code	Size
E907332	16L



Coatings Selection Chart

	Roll, Brush, Spray	Extended Worktime	Hot Weather Application	Pourable	Clear Coating	3mm dft	<200 Microns dft	24 Hours Cure at 25°C	Potable Water Approval AS4020	Chemical Resistant
Epoxy Primer Sealer (123)	●			●	●		●	●		●
Epoxy Mastic Metal Primer (215)	●	●	●	●			●	●		●
Ultra High Build Epoxy Coating (733)	●					●		●	●	●

Sealants

Control Joint Sealant (D5-070)

DESCRIPTION

A specially formulated epoxy that is designed for sealing construction control joints in concrete. It will withstand up to 10% total joint movement and also absorb the shock of mechanical stress and traffic.

APPLICATIONS

Warehouse floors, parking structures, factory floors, plaza promenade decks and grain & sugar terminals.

KEY FEATURES

- 100% solids, solvent free
- Excellent adhesion
- Food safe
- Self levelling



Product Code	Size
E115070	4L

Flexible Non-Sag Epoxy Sealant (D5-070NS)

DESCRIPTION

A non-sag version of Epiroz Control Joint Sealant for sealing dissimilar materials, eg. covering against sandwich panels, floor and wall joints in inclined concrete structures.

APPLICATIONS

Warehouse floors, parking structures, factory floors, ramps and driveways.

KEY FEATURES

- Non-sag for inclined and vertical surfaces
- Good chemical resistance
- Excellent bond strength
- No primer required on most clean joints



Product Code	Size
E115082	4L

Saw Cut Sealant (D5-050)

DESCRIPTION

A specially formulated epoxy that is designed for sealing saw cuts in concrete floors. Grey in colour when mixed, it blends well with most concrete floors and supports the edges of saw cuts preventing chipping.

APPLICATIONS

Warehouse floors, parking structures, factory floors, epoxy floor topping joints.

KEY FEATURES

- Equal part mix ratio
- Self levelling
- Reinforces joint edges
- Coloured concrete grey



Product Code	Size
E950504	4L



Joint Sealant Estimator

(Litres Per 100 Metres)

	6	10	12	15	19	25	30	35	45
6	3.6	6.0	7.2	9.0					
10	6.0	10.0	12.0	15.0					
12			14.4	18.0	22.8				
15				22.5	28.5				
19					36.1	47.5	57.0		
25						62.5	75.0		
30							90.0	105.0	
35								122.5	157.5
45								157.5	202.5
50									225.0

► General Surface Preparation

Remove all loose, crumbly and drummy areas to obtain a sound surface. Captive blast clean or acid etch to expose firmly help aggregate. Ascertain that surfaces are free of dust, oil and grease. Dampness can be tolerated with some products – check specific recommendations.

Surface preparation guidelines cannot cover all site or field contingencies and it is always recommended that an on-the-spot adhesion test be performed as part of the Standard Quality Assurance Audit for the project.

► Concrete & Metal Surface Preparation

Concrete

Remove any coatings and loose material. New concrete should be preferably be 28 days old. Remove any oil or grease contamination by washing with a water rinsable surface degreaser. Hose off with high pressure water.

Captive blast clean to expose firmly held aggregate to industrially accepted standards. Allow surface to dry before application. Alternatively, with Epirez® Concrete Etch & Cleaner, neutralise surface by washing with fresh water and allow surface to dry.

Steel

Remove any old paint and loose material. Abrasive blast clean to Visual Surface Cleanliness Class 21/2 near white metal to Australian Standard AS1627:4 2005 with a profile of 50 microns. Apply Epirez® Epoxy Mastic Primer within 3 hours. For previously painted steel, whip-blast or abrade to remove rust. Solvent wash and sand all aged paint. A test patch should be applied if aged paint composition is unknown.

Steel – Concrete Reinforcement

For reinforcing steel, remove rust and scale to promote maximum adhesion. A tightly bonded light oxide build-up may develop after cleaning. This is not usually detrimental to adhesion. Use abrasive blasting or power wire brush.

Saw cut edges of repair area to a depth of 10mm to avoid feather edging. Clean repair area with oil free compressed air.

Galvanised Steel, Zincalume, Aluminium.

Remove outside layer by whip-blast or power wire brush. Solvent degrease. Do not use detergents.

► General Mixing Instructions

Liquids

Correct proportioning is essential. Measure sufficient Hardener and Compound to be used within the work time nominated. Mix thoroughly using a low speed power mixer. Ensure that all the material on the side and on the stirrer is incorporated. Take care to avoid air entrapment in the mix. If extending with Epirez® Aggregates, follow recommendations for the particular product and the particular application, care should be taken to keep aggregate dry after opening.

Pastes

Mix recommended amounts of Hardener and Compound until an even colour is obtained. This can be best accomplished on a mixing board with a broad knife.

Cements

Use a lot speed mixer (400rpm) to mix into water. Use the nominated water ratio. Add product to water and mix for 5 minutes.

► General Priming Instruction for Concrete

Concrete should be at least 28 days old. For epoxy coatings, flowing systems, adhesive and repair product best results will always be obtained by priming concrete surfaces with Epirez® Epoxy Primer/Sealer (123) at a coverage rate of 5m²/litre. Primers should be “touch dry” before proceeding. The next Epirez® product or system should be applied within 24 hours or priming. If this time is exceeded the sub-base must be reprimed. Keep primed surfaces clean. Cement based repair products can be generally primed with single pack Epirez® Primers or with Epirez® General Purpose Epoxy Mortar Binder (133) or Epirez® Non-Sag Epoxy Mortar Binder (633) where the optimum performance is required, or where the repair will be regularly immersed.

Note: All primer types should be tacky when applying cementitious products.

Cement based grouts require different procedures. Several hours prior to grouting, the prepared foundation should be flooded for pre-soaking with fresh water. Immediately prior to grouting, any standing water should be removed, inspect pockets and bolt holes for water removal.

► General Priming Instructions for Reinforcing Steel

Prime reinforcing steel or structural steel with Epirez® Epoxy Mastic Metal Primer (215) to prevent further corrosion. The primer should be protected and allowed to cure before proceeding.

► General Curing Instructions for Cement based Products

Water evaporation from the surface during cure will significantly affect the final properties. Cement based grouts and repair products should be kept moist for 2-3 days by the application of a suitable water based curing compound and sealer, or the use of appropriate impermeable sheeting.

► Clean up

Tools and equipment may be cleaned before hardening commences by washing in Epirez® Clean Up Solvent. Cement based products can be removed immediately after use with clean water. Do not use Epirez® Clean Up Solvent for cleaning hands or mixing with product. Clean hands with a suitable hand cleaner.

► Patching & Flooring Mortar Aggregate (QA2)

Description

A blend of selected aggregates that can be used in different ratios with Epirez® Epoxy Binders to produce a range of patching repair mortars and floor toppings. It can be used to provide a non-skid flow finish when applied by spread and sprinkle techniques between coats of the Epirez® flooring products.

Size	Part No.
4L	E992405
16L	E992402

► Epoxy Mortar Aggregate Extender (Qa3)

Description

A blend of selected aggregates that can be used in different ratios with Epirez® epoxy binders to produce a range of patching repair mortars and floor toppings.

Size	Part No.
16l	992409

► Epoxy Grout Aggregate Extender (QA30)

Description

A blend of selected aggregates that can be used to extend Epirez® High Performance Epoxy Grout (280S) to allow deeper pours without affecting the overall mechanical properties.

Size	Part No.
18L	E992410

► Epoxy Anti-Slip Flooring Aggregate (Sil-Carb)

Description

An aggregate mix of silicon carbide used to provide a hard wearing non-skid floor finish when applied by spread and sprinkle techniques between coats of the Epirez® flooring products.

Size	Part No.
5kg	E992712

► Epoxy Self Levelling Aggregate (ESLII)

Description

A blend of selected aggregates that can be mixed with Epirez® Self Levelling Binder to produce a seamless smooth floor finish.

Size	Part No.
14kg	E991568

► Epoxy Accelerator (D1419)

Description

Ideal for applications where fast curing is essential. It speeds up the cure of all Epirez® epoxy compounds at temperatures as low as 0°C. It can cause yellowing when used with light coloured floor coatings. Should only be used after consultation with ITW Polymers & Fluids Technical Department.

Size	Part No.
250ml	E991190

► Clean Up Solvent (CUS)

Description

A blend of flammable solvents that have excellent dissolving power on uncured epoxy materials

Applications

Cleaning of mixing tools, mixing bowls, trowels and brushes.

Size	Part No.
4L	E991102
20L	E991101

► Epoxy Thinner (No.3)

Description

A solvent to be used to thin out certain Supatuff coatings when they are used to prime the concrete surface.

Applications

Suitable for Supatuff Heavy Duty Epoxy Coating, Supatuff Floor Coating and Supatuff Acid Resistant Coating.

Size	Part No.
4L	E993002
20L	E993001

Properties Guide

CONCRETE REPAIR

	PACKAGING	COMPRESSIVE STRENGTH	TENSILE STRENGTH
Multi-Purpose Epoxy Concrete Repair (MULTI II)	3kg, 12kg	60 MPa	12 MPa
Crack Repair Epoxy Sealer (123)	300ml, 1.5L	-	-
Highway Patch	15kg	58 MPa	-
Ezipatch Superset	20kg	41 MPa	-
Ezirender High Build	20kg	45 MPa	1.8 MPa
Waterproof Plug	15kg	25 MPa	-

MORTAR BINDERS

	PACKAGING	COMPRESSIVE STRENGTH	TENSILE STRENGTH
Acid Resistant Epoxy Binder (133AR)	4L, 20L	65 MPa	>10 MPa
Non-Sag Epoxy Mortar Binder (6330)	1L, 4L, 20L	95 MPa	62 MPa
General Purpose Epoxy Mortar Binder (133)	1L, 4L, 20L	95 MPa	55 MPa

ADHESIVES

	PACKAGING	COMPRESSIVE STRENGTH	TENSILE STRENGTH
Episet Structural Adhesive (8242)	600ml, 4L, 20L	70 MPa	15 MPa
Episet XL	600ml, 4L	66 MPa	-

CEMENTITIOUS GROUTS

	PACKAGING	CLASSIFICATION	COMPRESSIVE STRENGTH
Suapflow HF Grout	20kg	c	105 Mpa
Hot Weather Class C Grout	20kg	c	75 Mpa
Class A Superstrength Grout	20kg	a	70 Mpa
Epirez Superstrength Grout	20kg	z	75 Mpa
Epirez Instant Grout	15kg	z	41 Mpa

EPOXY GROUTS

	PACKAGING	MIX RATIO H:C	COMPRESSIVE STRENGTH	VOLUME PER KIT
Chockfast Red	94kg	3:4:6.1 by V + 84kg Agg	105 Mpa	45.3L
High Performance Epoxy Grout (280S)	30kg	1:10 by W 1:5 by V	105 Mpa	17.6L
General Purpose Epoxy Grout (II)	6kg, 30kg	1:9 by W 1:5 by V	100 Mpa	3.7L, 18.5L
Heavy Duty Backing Grout (5137)	10kg	1:10 by W 1:5 by V	124 Mpa	5.92L
High Early Strength Epoxy Grout (5137HES)	10kg	1:10 by W 1:5 by V	80 Mpa	6.36L

*Denotes concrete failure

BOND STRENGTH	POT LIFE	CURE TIME	MAX. APPLICATION THICKNESS
2.7 MPa*	30 Minutes	24 Hours	50mm
2.7 MPa*	30 Minutes	24 Hours	20-40 Microns
27 MPa	25 Minutes	4 Hours (Foot Traffic)	50mm
27 MPa	15 Minutes	4 Hours (Foot Traffic)	25mm
-	30 Minutes	2 Hours (Not Trafficable)	100mm
-	3 Minutes	24 Hours	25 - 50mm

BOND STRENGTH	POT LIFE	CURE TIME	OPERATIONAL TEMPERATURE
2.7 MPa*	30 Minutes	24 Hours	65°C (Dry)
2.7 MPa*	30 Minutes	24 Hours	120°C (Dry)
2.7 MPa*	30 Minutes	24 Hours	120°C (Dry)

BOND STRENGTH	POT LIFE	CURE TIME	OPERATIONAL TEMPERATURE
2.7 MPa*	45 Minutes	24 Hours	90°C (Dry)
27 MPa*	10 Minutes	4 Hours	100°C (Dry)

VOLUME PER KIT	WORK TIME	CURE TIME	MAX. SERVICE TEMPERATURE	MAX. CASTING THICKNESS	MIN. CASTING THICKNESS
9.6L	60 Minutes	28 Days	200°C	125mm > 75 mm Agg	10mm
9.76L	60 Minutes	28 Days	200°C	75mm > Agg	10mm
10.6L	20 Minutes	28 Days	200°C	75mm	20mm
10.75L	20 Minutes	28 Days	200°C	75mm	20mm
8.0L	10 Minutes	24 Hours	95°C	75mm	20mm

COLOUR MIXED	WORK TIME	CURE TIME	MAX. SERVICE TEMPERATURE	MAX. CASTING THICKNESS	MIN. CASTING THICKNESS
Red	3 Hours	24 Hours	80°C	1200mm in 3 Pours	30mm
Greenish Blue	60 Minutes	24 Hours	85°C	80mm with Extender	<5mm
Grey	60 Minutes	24 Hours	65°C	50mm	10mm
Green	30 Minutes	24 Hours	130°C	50mm	5mm
Grey	20 Minutes	6 Hours	130°C	50mm	5mm

Properties Guide

FLOORING

	Percentage Solids	Coverage	DFT
Supatuff Floor Coating (FC)	55%	164 sq.m/23kg Kit*	62 Microns
Supatuff Heavy Duty Epoxy Coating (HD)	85%	45 sq.m/8L Kit*	150 Microns
Supatuff Food Grade Finish (FG)	100%	53 sq.m/8L Kit*	150 Microns
Supatuff Acid Resistant Coating (AR)	90%	24 sq.m/4L Kit	150 Microns
Supatuff Water Based (WB)	61%	68 sq.m/8L Kit	65 Microns
Supatuff Clear Coat Sealer (SC100)	100%	20 sq.m/4L Kit	200 Microns
Epoxy Floor Sealer 113	50%	320 sq.m/40kg Kit	62.5 Microns
Safe Step™ 100	61%	4.8 sp.m/4L Kit	800 Microns
Safe Step™ 550	93%	8.8 sq.m/8L Kit*	1mm
Epitread	97%	23 sq.m/8L Kit*	800 Microns
Epoxy Self Levelling Binder (ESL)	100%	5.75 sq.m/21kg Kit*	2mm
Easifloor Binder (II)	100%	4 sq.m/20L Kit	4mm

COATING

	Percentage Solids	Coverage	DFT
Epoxy Primer/Sealer (123)	100%	36 sq.m/6L Kit	125 Microns
Epoxy Mastic Metal Primer (215)	83%	6.6 sq.m/1L Kit	150 Microns
Ultra High Build Epoxy Coating (733)	100%	8 sq.m/16L Kit	2mm

SEALANTS

	Packaging	Joint Movement	Tensile Strength
Saw Cut Sealant (DS-050)	4L	^5%	12 Mpa
Control Joint Selant (D5-070)	4L	^5%	15 mpa
Flexible Non-Sag Epoxy Sealant	4L	^5%	15mpa

SPECIALTY PRODUCTS

	Packaging	Max. Casting Thickness	Tensile Strength
Epoxy Casting Compound (8837)	6kg	150mm	28 Mpa
Epoxy Electrical Maintenance Kit (324A)	2kg	20mm	63 Mpa

	Pot Life	Recoat	vCure Time	Operational Temperature
	6 to 8 Hours	8 to 24 Hours	7 Days	95°C (Dry)
	3 Hours	16 to 48 Hours	7 Days	95°C (Dry)
	1 Hour	8 to 24 Hours	7 Days	95°C (Dry)
	45 Minutes	8 to 24 Hours	7 Days	65°C (Dry)
	1.5 Hours	16 to 20 Hours	7 Days at 25°C	60°C (Dry)
	40 Minutes	12 to 48 Hours	7 Days	80°C (Dry)
	6-8 Hours	8 to 24 Hours	7 Days	100°C (Dry)
	-	8 to 24 Hours	7 Days	65°C (Dry)
	1 Hour	-	7 Days (4 Hours Light Foot Traffic)	95°C (Dry)
	3 Hours	-	7 Days (24 Hours Light Foot Traffic)	95°C (Dry)
	30 Minutes	-	7 Days (24 Hours Light Foot Traffic)	95°C (Dry)
	45 Minutes	-	7 Days (24 Hours Light Foot Traffic)	95°C (Dry)

	Pot Life	Recoat	Cure Time	Operational Temperature
	30 Minutes	8 to 24 Hours	7 days	80°C (Dry)
	90 Minutes	12 to 48 Hours	7 days	95°C (Dry)
	30 Minutes	-	7 Days	120°C (Dry)

	Shore A Hardness	Pot Life	Cure Time
	80	1 Hour	7 days
	80 to 90	30 Minutes	24 hours
	80 to 90	30 Minutes	24 Hours

	Dielectric	Pot Life	Cure Time	Operational Temperature
	3.28 (Constant)	2 Hours	24 Hours	50°C (Dry)
	315kv/cm (Strenth)	30 Minutes	24 Hours	150°C (Dry)

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