



**ELITE CHEMICAL
INDUSTRIES**

**MINING & ENGINEERING
EPOXY'S**

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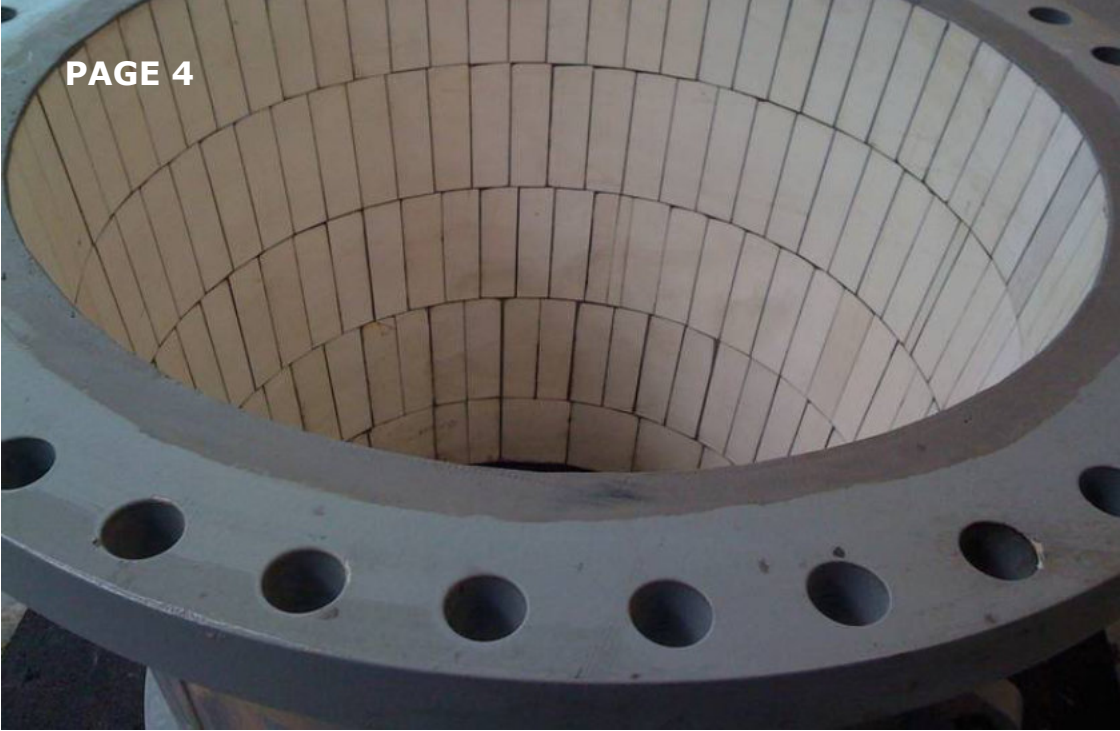
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ELI-BOND

Ceramic tile adhesive epoxy - Epoxy used for adhering Alumina ceramic tiles to metal surfaces, used in various environments and applications.





**WORK
TEMP**



60°C

FR964LC - EPOXY TILE ADHESIVE

The Eli-Bond FR/964/LC Epoxy Adhesive shows outstanding bond strength and adhesion on a multitude of materials, especially metal to metal, concrete, and even difficult surfaces like PVC and treated Polyethylene. Since the FR/964/LC Adhesive is supplied in a paste form, the product finds equal applications on horizontal as well as vertical surfaces.

**WORK
TIME**



± 20 min

Mixing and Application

APPLICATION:	By spatula or trowel	
VISCOSITY / 25°C:	Thixotropic Paste	
COLOUR:	Resin:	Beige
	Hardener:	Black
	Mixed colour:	Light Grey
MIXING RATIO:	100 Parts Resin	
BY WEIGHT OR VOLUME:	90 – 100 Parts Hardener	
SPECIFIC GRAVITY / 25°C:	1.8 g/cm ³	

**GEL
TIME**



2 hrs

**CURE
TIME**



6hrs

Technical data sheets &
MSDS available on request

**WORK
TEMP****80°C**

FR961 - STANDARD CERAMIC TILE ADHESIVE

The Eli-Bond FR/961 Tile Adhesive shows good bond strength and adhesion on Metal, Ceramic, Concrete

**WORK
TIME****± 20 min**

Mixing and Application

APPLICATION:	By spatula	
VISCOSITY / 25°C:	Thixotropic Paste	
COLOUR:	Resin:	Beige
	Hardener:	Dark Grey
	Mixed colour:	Grey
MIXING RATIO:	100 Parts Resin	
BY WEIGHT OR VOLUME:	50 Parts Hardener	
SPECIFIC GRAVITY / 25°C:	1.70– 1.75 g/cm ³	

Technical data sheets & MSDS available on request

**GEL
TIME****50 min****CURE
TIME****8 hrs**



FR961TA - TILE ADHESIVE

The Eli-Bond FR/961/TA Tile Adhesive shows good bond strength and adhesion on Metal, Ceramic, Concrete

**WORK
TEMP**



80°C

**WORK
TIME**



15 min

Mixing and Application

APPLICATION:	By spatula	
VISCOSITY / 25°C:	Thixotropic Paste	
COLOUR:	Resin:	Off White
	Hardener:	Beige
	Mixed colour:	Off White
MIXING RATIO:	100 Parts Resin	
BY WEIGHT OR VOLUME:	50 Parts Hardener	
SPECIFIC GRAVITY / 25°C:	1.70–1.75 g/cm ³	

Technical data sheets & MSDS available on request

**GEL
TIME**



35 min @ 5mm

**CURE
TIME**



8hrs @ 5mm



FR961TAFN - FAST SETTING CERAMIC TILE ADHESIVE

The Eli-Bond FR/961/TAF Tile Adhesive shows good bond strength and adhesion on Metal, Ceramic, Concrete

Mixing and Application

APPLICATION:	By spatula	
VISCOSITY / 25°C:	Thixotropic Paste	
COLOUR:	Resin:	Off White
	Hardener:	Beige
	Mixed colour:	Off White
MIXING RATIO:	100 Parts Resin	
BY WEIGHT OR VOLUME:	100 Parts Hardener	
SPECIFIC GRAVITY / 25°C:	1.70–1.75 g/cm ³	

Technical data sheets & MSDS available on request

**WORK
TEMP**



80°C

**WORK
TIME**



10 min

**GEL
TIME**



20 min @ 5mm

**CURE
TIME**



4 hrs @ 5mm



FR961FS - QUICK SET CERAMIC TILE ADHESIVE

The Eli-Bond FR/961/FS Tile Adhesive shows good bond strength and adhesion on Metal, Ceramic, Concrete.

The product is suitable for applications on horizontal as well as vertical surfaces.

**WORK
TEMP**



70°C

**WORK
TIME**



5 - 10 min

Mixing and Application

APPLICATION:	By spatula or trowel	
VISCOSITY / 25°C:	Semi-Thixotropic Paste	
COLOUR:	Resin:	Off White
	Hardener:	Pink
	Mixed colour:	Off White
MIXING RATIO:	100 Parts Resin	
BY WEIGHT OR VOLUME:	40 - 50 Parts Hardener	
SPECIFIC GRAVITY / 25°C:	1,60-1,65 g/cm ³	

Technical data sheets & MSDS available on request

**GEL
TIME**



25 min @ 5mm

**CURE
TIME**



6hrs @ 5mm



FR972AHT - HEAT RESISTANT TILE ADHESIVE

The Eli-Bond FR/972/A HT Adhesive shows outstanding bond strength and adhesion on Metal, Ceramic, Concrete. The product is suitable for applications on horizontal as well as vertical surfaces.

The Adhesive has specifically been designed to bond Ceramic Tiles/Liners to surfaces that are subject to elevated temperatures. Eli-Bond FR/972/A HT is suitable for applications subject to 120°C or short time exposures up to 150°C peak temperature.

Mixing and Application

APPLICATION:	By spatula or trowel	
VISCOSITY / 25°C:	Thixotropic Paste	
COLOUR:	Resin:	Light Grey
	Hardener:	Amber - Trans
	Mixed colour:	Light Grey
MIXING RATIO:	By Weight	By Volume
	100 Parts Resin	100 parts Resin
	16 Parts Hardener	25 parts Hardener
SPECIFIC GRAVITY / 25°C:	1.5 – 1.55 g/cm ³	

Technical data sheets & MSDS available on request

**WORK
TEMP**



130°C

**WORK
TIME**



15 min

**GEL
TIME**



25 min @ 5mm

**CURE
TIME**



8 hrs @ 5mm



FR1000A HEAT RESISTANT ADHESIVE

The Eli-Bond FR/1000/A adhesive retains its outstanding adhesion and bond-strength on most inorganic surfaces at temperatures up to 180°C.

Typical applications would include the bonding of metal to metal, ceramic tiles to metal and general bonding applications - subject to elevated temperatures

**WORK
TEMP**



180°C

**WORK
TIME**



15 min

Mixing and Application

APPLICATION:	By spatula or trowel	
COLOUR:	Resin:	Grey
	Hardener:	Off White
	Mixed colour:	Light Grey
MIXING RATIO: BY WEIGHT OR VOLUME:	100 Parts Resin	
	40 Parts of Hardener	
COVERAGE:	Mixed System: 1.45 – 1.6 g/cm ³	

**GEL
TIME**



1½ - 2 Hours

Technical data sheets &
MSDS available on request

**CURE
TIME**



3½ - 4 Hours

**WORK
TEMP****80°C**

FR914C - GASKET COMPOUND

Jointing compound used for sealing low pressure pipes and cyclone parts

Mixing and Application

APPLICATION:	By spatula or trowel	
VISCOSITY / 25°C:	Thixotropic Paste	
COLOUR:	Resin:	Grey
	Hardener:	Clear Liquid
	Mixed colour:	Grey
MIXING RATIO:	By Weight:	By Volume:
	100 Parts of Resin	100 Parts of Resin
	9 Parts Hardener	13-14 Parts Hardener
SPECIFIC GRAVITY / 25°C:	1.6–1.7g/cm ³	

Technical data sheets &
MSDS available on request

**WORK
TIME****15 min****GEL
TIME****40 min****CURE
TIME**

**± 24 Hours
@ 5mm**



FR166 - G P ADHESIVE CLEAR

Eli-Bond FR/166 is a room temperature curing, general purpose adhesive which shows outstanding adhesion and bond strength on cleaned and roughened organic or inorganic surfaces. A strong and lasting bond is produced on substrates such as various metals, wood, asbestos, concrete, brick, glass, ceramics and retreated plastics and rubber.

Mixing and Application

APPLICATION:	By brush or spatula or pouring	
VISCOSITY / 25°C:	Fluid	
COLOUR:	Mixed colour:	Amber - Trans
MIXING RATIO:	By Weight:	By Volume:
	1 Part Resin	1 Part Resin
	1 Part Hardener	1 Part Hardener
SPECIFIC GRAVITY / 25°C:	1.6–1.7g/cm ³	

Technical data sheets & MSDS available on request

**WORK
TEMP**



80°C

**WORK
TIME**



30 min

**GEL
TIME**



60 min

**CURE
TIME**



± 24 Hours



FR917A - ROAD STUD ADHESIVE

The easy handling characteristics and the custom made pack of the Eli-Bond FR/917A adhesive allows for an uncomplicated and speedy bonding operation of a conventional road stud, e.g. ceramic, acrylic, glass onto bituminous and concrete roads.

Mixing and Application

APPLICATION:	By Spatula	
VISCOSITY / 25°C:	A semi thixotropic adhesive	
COLOUR:	Resin:	Black
	Hardener:	Black
	Mixed colour:	Black
MIXING RATIO:	By Weight:	By Volume:
	100 parts of Resin	100 parts of Resin
	50 parts of Hardener	50 parts of Hardener
SPECIFIC GRAVITY / 25°C:	1.6 – 1.7 g/cm ³	
YIELD PER 1 LITRE	Depending on road surface and type of road stud: 15 – 20 road studs can be bonded with 1 litre of FR/917/A adhesive	

Technical data sheets & MSDS available on request

**WORK
TEMP**



80°C

**WORK
TIME**



15 min

**GEL
TIME**



90 min

**CURE
TIME**

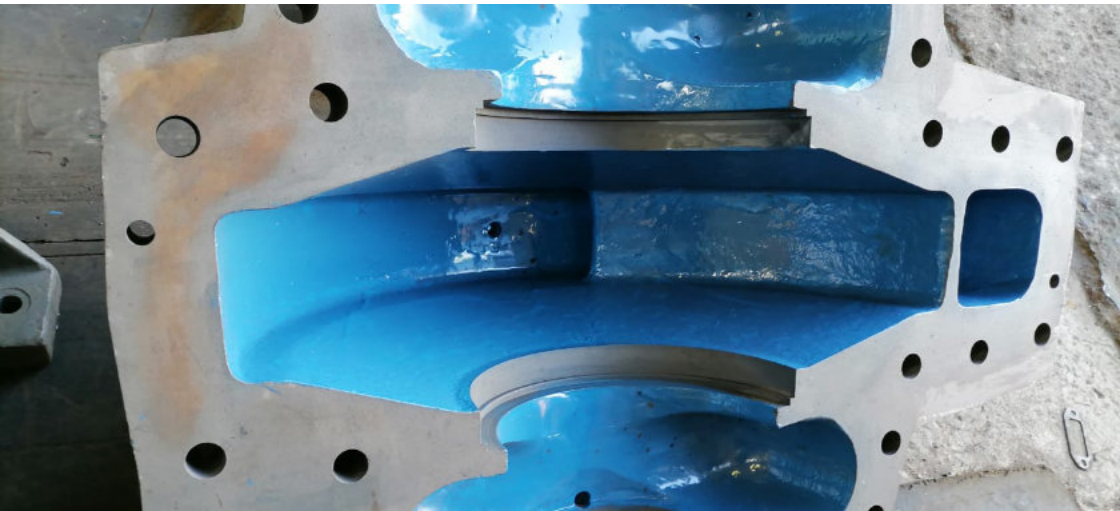


120 min



ELI-COTE

Wear resistant Epoxy Compound - Epoxy used to create a wear resistant lining on metal surfaces.



WORK
TEMP

60°C

FR985B - ABRASION RESISTANT GELCOAT

Eli-Cote FR/985 is a blue coloured Epoxy Gelcoat with good abrasion resistance.

WORK
TIME

10 min

Mixing and Application

APPLICATION:	Brush	
VISCOSITY / 25°C:	Resin:	
	Mixed Compound:	
MIXING RATIO:	By Weight:	By Volume:
	17 Parts Hardener	26 Parts Hardener
	100 Parts Resin	100 Parts Resin
COVERAGE/585g PACK	0.4 m ² (1 mm thick coating)	

Technical data sheets &
MSDS available on request

GEL
TIME25 min
@ 5mmCURE
TIME

2 hrs @ 1mm



FR1008D - Wear resistant Epoxy Compound

The Eli-Cote FR/1008/D has been designed for the protection of surfaces subjected to high wear, particularly on areas where solids or slurries cause severe abrasion. The mortar provides a long lasting lining to metal and concrete surfaces. The soft thixotropic texture of the mortar allows for easy mixing and makes the product suitable for horizontal, as well as vertical applications. Typical applications include wear resistant lining for chutes, pump casings, slurry pumps, impellers, fans, pipe elbows, hoppers, vibrating feeders, etc.

Mixing and Application

APPLICATION:	By spatula, trowel or hand (use protective gloves)	
COLOUR:	Resin:	Black
	Hardener:	Iron Oxide Red
	Mixed colour:	Brown
MIXING RATIO:	100 Parts Resin	
BY WEIGHT OR VOLUME:	50 Parts Hardener	
COVERAGE:	1 Litre = 1.9 kg / m ² (1 mm)	
	6 Litres = 111.4 kg / 6m ² (1 mm)	

Technical data sheets &
MSDS available on request

**WORK
TEMP**



75°C

**WORK
TIME**



15 min

**GEL
TIME**



60 min

**CURE
TIME**



3 hrs



FR1013 - Wear resistant Epoxy Compound

The Eli-Cote FR/1013 has been designed for the protection of surfaces subjected to high wear, particularly on areas where solids or slurries cause severe abrasion. The mortar provides a long lasting lining to metal and concrete surfaces.

The soft thixotropic texture of the mortar allows for easy mixing and makes the product suitable for horizontal, as well as vertical applications.

**WORK
TEMP**



100°C

**WORK
TIME**



15 min

Mixing and Application

APPLICATION:	By spatula, trowel or hand (use protective gloves)	
COLOUR:	Resin:	Grey (Paste)
	Hardener:	Brown – Transparent (Liquid)
	Mixed colour:	Grey (Paste)
MIXING RATIO:	100 Parts Resin	
BY WEIGHT OR VOLUME:	6 Parts Hardener (Weight)	
	13 Parts Hardener (Volume)	
COVERAGE:	1 Litre = 2 kg / m ² (1 mm)	
	6 Litres = 12 kg / 6m ² (1 mm)	

**GEL
TIME**



**25 min
@ 5mm**

**CURE
TIME**



**40 min @
5mm**

Technical data sheets &
MSDS available on request



FR1008HT3 - ABRASION & HEAT RESISTANT MORTAR

The Eli-Cote FR/1008HT3 has been designed for the protection of surfaces subjected to high wear, particularly on areas where solids or slurries cause severe abrasion. The mortar provides a long lasting lining to metal and concrete surfaces.

The soft thixotropic texture of the mortar allows for easy mixing and makes the product suitable for horizontal, as well as vertical applications.

Mixing and Application

APPLICATION:	By spatula, trowel	
COLOUR:	Resin:	Grey
	Hardener:	Black
	Mixed colour:	Metal grey
MIXING RATIO:	BY WEIGHT OR VOLUME:	
	100 Parts Resin 25 Parts Hardener	
COVERAGE:	1.85 – 1.9 g/cm ³	

Technical data sheets &
MSDS available on request

WORK
TEMP



120°C

WORK
TIME



20 min

GEL
TIME



1½ – 1¾ hrs
@ 5mm

CURE
TIME



12 Hours



FR1008D1LV - ABRASION RESISTANT MORTAR

The Eli-Cote FR/1008/D1/LV has been designed for the protection of surfaces subjected to high wear, particularly on areas where solids or slurries cause severe abrasion. The mortar provides a long lasting lining to metal and concrete surfaces.

The soft thixotropic texture of the mortar allows for easy mixing and makes the product suitable for horizontal, as well as vertical applications.

A two part, ambient temperature curing Epoxy Repair/Maintenance Compound containing abrasion resistant fillers

Mixing and Application

APPLICATION:	By spatula, trowel or hand (use protective gloves)	
COLOUR:	Resin:	White
	Hardener:	Iron Oxide Red
	Mixed colour:	Pink
MIXING RATIO:	By Weight:	
	100 Parts Resin	
	30 Parts Hardener	
	By Volume:	
	100 Parts Resin	
COVERAGE:	35 – 37 Parts Hardener	
	1 Litre = 1.95 kg / m ² (1 mm)	
	3 Litres = 6 kg / 3m ² (1 mm)	

Technical data sheets &
MSDS available on request

**WORK
TEMP**



85°C

**WORK
TIME**



15 min

**GEL
TIME**



30 min

**CURE
TIME**



10 hrs



ELI-FIL

Metal & Marine filling Putty - Putty used in conjunction with metallic, concrete & fibreglass objects to do repairs





FR179 - METAL FILLING PUTTY

Eli-Fil can be used in conjunction with any metallic object, e.g. to repair broken castings, tanks, parts of machinery, to level irregularities and fill blow holes to build up worn parts and to bond various metals, iron, steel, aluminium. It is also suitable for making tools, jigs, models, etc.

Mixing and Application

APPLICATION:	By spatula	
VISCOSITY / 25°C:	Non-sagging paste	
MIXING RATIO:	By weight:	100 parts of Resin "A"
		25 parts of Hardener "B"
	By Volume:	100 parts of Resin "A"
		30 parts of Hardener "B"
	Measurement:	Resin 1 x 12,5 ml spoon = 20g Hardener 1 x 2 ml spoon = 5g
SPECIFIC GRAVITY / 25°C:	1.65 – 1.7 g/cm ³	

Technical data sheets &
MSDS available on request

**WORK
TEMP**



95°C

**GEL
TIME**



**45 - 60 min
@ 5mm**

**CURE
TIME**



**1½ – 2 hrs
@ 5mm**



FR912 - METAL FILLING PUTTY

Eli-Fil FR912 Steel Putty can be used for emergency and permanent repairs of broken castings, tanks, parts of machinery, to level irregularities and fill blow holes, to build up worn parts and to bond various metals, ie. iron, steel aluminium. The product is also suitable for making tools, jigs, models, etc.

Mixing and Application

APPLICATION:	By spatula	
VISCOSITY / 25°C:	Non-sagging Paste	
MIXING RATIO:	By Weight:	By Volume:
	100 Parts of Resin	100 Parts of Resin
	11 Parts of Hardener	35 Parts of Hardener
COLOUR:	Metallic grey	
SPECIFIC GRAVITY / 25°C:	Resin	2.8 – 3 g/cm ³
	Hardener	0.97 – 1 g/cm ³
	Mixed Compound	2.7 – 2.8 g/cm ³

Technical data sheets &
MSDS available on request

**WORK
TEMP**



120°C

**GEL
TIME**



**1½ - 1¾ Hours
@ 5mm**

**CURE
TIME**



**3 - 4 hrs
@ 5mm**



FR913 - METAL FILLING PUTTY

ENGINEERING / MINING APPLICATIONS: The use of the FR/913 "quick set" Steel Putty is recommended where emergency repairs must be undertaken and time does not allow the application of the standard Eli-Fil range of Metal Filling Putties. Typical applications include repairs on damaged- leaking pipes, pumps, tanks and machine parts, to build up worn parts and linings in pumps, on impellers, shafts.

FOUNDRY APPLICATIONS: The paste like viscosity combined with excellent adhesion and strength on all ferrous and non-ferrous surfaces makes the steel putty an ideal product to fill blow holes, incorrectly drilled holes and surface blemishes in ferrous and non-ferrous castings and patterns.

Mixing and Application

APPLICATION:	By spatula	
VISCOSITY / 25°C:	Mixed Compound: Paste	
MIXING RATIO:	By Weight:	By Volume:
	100 Parts of Resin	100 Parts of Resin
	21-22 Parts of Hardener	55-58 Parts of Hardener
COLOUR:	Resin: Metallic grey	Hardener: Clear
SPECIFIC GRAVITY / 25°C:	Resin	2.9 – 3 g/cm ³
	Hardener	1.0 – 1.15 g/cm ³
	Mixed Compound	2.9 – 2.95 g/cm ³

Technical data sheets &
MSDS available on request

**WORK
TEMP**



100°C

**GEL
TIME**



**3 min
@ 5mm**

**CURE
TIME**



**6 min
@ 5mm**



**WORK
TEMP**



120°C

FR955 - ALUMINIUM PUTTY

An ambient temperature curing, two component Epoxy Putty formulated with an Aluminium Filler.

**WORK
TIME**



50 min

Mixing and Application

APPLICATION:	By spatula	
VISCOSITY / 25°C:		
MIXING RATIO:	By Weight:	By Volume:
	100 Parts of Resin	12,5 ml spoon = 23.5g Resin
	10-11 Parts of Hardener	2 ml spoon = 2.5 g Hardener
COLOUR:	Resin: Aluminium grey	Hardener: Red
SPECIFIC GRAVITY / 25°C:	1.9 – 2.0 g/cm ³	

Technical data sheets & MSDS available on request

**GEL
TIME**



**2½ – 3 hrs
@ 5mm**

**CURE
TIME**



24 Hours



FR983 - ABRASION RESISTANT PUTTY

Eli-Fil FR/983 Steel Putty can be used for emergency and permanent repairs of broken castings, tanks, parts of machinery, to level irregularities and fill blow holes, to build up worn parts and to bond various metals, i.e. iron, steel aluminium. The product is also suitable for making tools, jigs, models, etc.

Mixing and Application

APPLICATION:	By spatula	
VISCOSITY / 25°C:	Thixotropic Paste	
MIXING RATIO:	By Weight:	By Volume:
	100 Parts of Resin	100 Parts of Resin
	9 Parts of Hardener	19 - 20 Parts of Hardener
COLOUR:	Resin:	Black
	Hardener:	White
	Mixed Compound:	Metallic Grey
SPECIFIC GRAVITY / 25°C:	Resin	2.5 – 2.6 g/cm ³
	Hardener	1.0 – 1.1 g/cm ³
	Mixed Compound	2.4 – 2.5 g/cm ³
PRACTICAL WORKING LIFE / 25°C:	450g Mix: 15 Minutes	

Technical data sheets & MSDS available on request

**WORK
TEMP**



100°C

**WORK
TIME**



15 min

**GEL
TIME**



**20 min
@ 5mm**

**CURE
TIME**



**35 min
@ 5mm**



FR308 - EPOXY FILLING PUTTY

High performance non sagging epoxy putty that sets rock hard. Once cured the repaired area can be machined, drilled and tapped. Available in Black or White. Once cured it can be painted.

Mixing and Application

APPLICATION:	By hand, spatula, knife	
VISCOSITY / 25°C:	Non-sagging putty	
MIXING RATIO:	By Weight:	By Volume:
	1 Part Resin A	1 Part Resin A
	1 Part Hardener B	1 Part Hardener B
COLOUR:	Black or White	

Technical data sheets & MSDS available on request

WORK
TEMP



90°C

GEL
TIME



1 – 1½ hrs

CURE
TIME



2 – 2½ hrs



**GEL
TIME**



1 hour

FR986A - MARINE PUTTY/WET SURFACE REPAIR PUTTY

The Eli-Fil FR/986 marine putty can be applied under adverse cold environmental conditions to damp - wet surfaces, e.g. concrete, rock, metal, etc.

Eli-Fil FR/986 is a filler and fibreglass reinforced two component Epoxy Repair Putty.

Mixing and Application

APPLICATION:	By spatula	
VISCOSITY / 25°C:	Thixotropic Paste	
MIXING RATIO:	By Weight:	By Volume:
	1 Part Resin A	1 Part Resin A
	1 Part Hardener B	1 Part Hardener B
COLOUR:	Resin:	White
	Hardener:	Beige
	Mixed:	White
COVERAGE:	1kg pack covers 0,35m ² - 0,55 m ²	

Technical data sheets &
MSDS available on request

**CURE TIME
ABOVE
WATER**



3 - 3½ hrs

**CURE TIME
UNDER
WATER**



5 hrs



FR517FII - CONCRETE REPAIR RESIN

Eli-Fil FR/517/FII is used for securing machinery and bolts into place, jointing concrete, pipes, repair work on roads, water tanks, bridges and floors and bonding new concrete to old concrete.

Eli-Fil FR/517/FII is a non-sagging Epoxy Mortar which does not contain any solvents, has therefore very low shrinkage and does not constitute a fire risk. The compound shows good adhesion and bond strength on concrete, brick, stone and ferrous metals.

The impact and bond strength exceeds the strength of a good quality concrete

Mixing and Application

APPLICATION:	By spatula or trowel	
VISCOSITY / 25°C:	Non-flowing mortar	
MIXING RATIO:	By Weight:	By Volume:
	1 Part Resin	1 Part Resin
	1 Part Hardener	1 Part Hardener
COLOUR:	Resin:	White
	Hardener:	Grey
	Mixed:	Light Grey
COVERAGE:	1,9 kg/m ² in a 1mm thick application	

Technical data sheets & MSDS available on request

**WORK
TEMP**



80°C

**WORK
TIME**



30 min

**GEL
TIME**



50 min

**CURE
TIME**



65 min



ELI-DUR

Rubber repair paste & liquid - On the spot rubber repair system.





FR70P - PU RUBBER REPAIR PASTE

Once crosslinked the Eli-Dur FR/70 paste produces an ambient temperature curing high grade rubber with hardness of Shore A 60 – 65. The product shows excellent flexibility combined with good tear strength and abrasion resistance. Eli-Dur can be used for indoor and outdoor applications.

Eli-Dur FR/70 Paste has been formulated for applications on vertical surfaces for "on the spot" conveyor belt and rubber repair. Protection against chemical attack and corrosion. Protection against abrasion on tanks, chutes, wear plates, conveyor troughs, pipes and concrete.

**WORK
TEMP**



80°C

**WORK
TIME**



7 min

Mixing and Application

APPLICATION:	By spatula	
COLOUR:	Resin:	Black
	Hardener:	Brown
MIXING RATIO:	By Weight	By Volume
	100 Parts Resin	100 Parts Resin
	20 Parts Hardener	16 Parts Hardener
COVERAGE:	0.9 m ² /kg (1mm Thick Application)	

Technical data sheets &
MSDS available on request

**GEL
TIME**



**10 min
@ 5mm**

**CURE
TIME**



**2 Hours
@ 5mm**

**WORK
TEMP****80°C**

FR70L - PU RUBBER REPAIR LIQUID

Once crosslinked the Eli-Dur FR/70 produces an ambient temperature curing high grade rubber with hardness of Shore A 65 - 70. The product shows excellent flexibility combined with good tear strength and abrasion resistance.

**WORK
TIME****6 min**

Mixing and Application

APPLICATION:	By spatula	
COLOUR:	Resin:	Black
	Hardener:	Brown
MIXING RATIO:	By Weight	By Volume
	100 Parts Resin	100 Parts Resin
	26 Parts Hardener	22 Parts Hardener
COVERAGE:	0.8 - 0.9 m ² /kg (1mm Thick Application)	

Technical data sheets &
MSDS available on request

**GEL
TIME****10 min
@ 5mm****CURE
TIME****2 Hours
@ 5mm**



ELI-WRAP

Pipe repair - Emergency Pipe repair bandages





ELI-WRAP - EMERGENCY PIPE REPAIR

Eli-Wrap Pipe Repair Bandages are fast action emergency pipe repair systems that stop leaks instantly.

- Easy to use, no mixing or measuring required
- Stops leaks instantly
- Easy to use
- Sets in 20-30 minutes
- Will withstand up to 30 bar pressure (435 psi)
- Excellent adhesion to most pipe surfaces (copper, PVC, polypipe, metal & concrete).
- Resistant to most chemicals including harsh solvents such as MEK, hydrochloric acid and gasoline

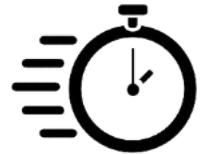
Eli-Wrap has a woven fibreglass substrate impregnated with a water activated polyurethane resin. Its ability to perform effectively in emergency situations greatly reduces costly downtime and production loss.

**WORK
TEMP**



150°C

**WORK
TIME**



10 min

**CURE
TIME**



20 - 30 min



Cut and Mix
repair stick as
required



Plug hole with
mixed repair
stick



Soak pipe
wrap in clean
water



Tightly wrap
pipe bandage
over repair
area at least
10 mm thick



Squeeze
excess resin
and leave to
set for 30
minutes



ELI-CRUSH

Crusher backing resins





ELI-CRUSH FR1009 CRUSHER BACKING RESIN

**WORK
TEMP**



75°C

A two pack, ambient temperature curing Epoxy Resin

Mixing and Application

APPLICATION:	By casting	
COLOUR:	Resin:	
	Hardener:	
MIXING RATIO:	By Weight	By Volume
	100 Parts Resin	100 Parts Resin
	11 Parts Hardener	20 Parts Hardener
IMPACT RESISTANCE:	8 kJ/m ²	
COVERAGE:	Mixed Resin: 1.65 – 1.7 g/cm ³	

Technical data sheets &
MSDS available on request

**WORK
TIME**



10 - 20 min

**GEL
TIME**



30 - 35 min

**CURE
TIME**



40 - 45 min



ELI-CRUSH FR867 CRUSHER BACKING RESIN

WORK
TEMP



80°C

Eli-Crush FR/867 is an ambient temperature curing, crusher backing resin with good impact resistance and very low shrinkage

- Easy pourability good penetration - even at lower temperatures
- Minimal filler settlement in containers - easy stirability
- Fast reactivity - good through curing properties at lower temperatures
- Safety; Eli-Crush does not contain solvents (100% solids) non-toxic and non-dermatitic at ambient temperatures

WORK
TIME



5 - 10 min

Mixing and Application

APPLICATION:	By casting	
COLOUR:	Resin:	Yellow / Brown
	Hardener:	Reddish Amber Clear
MIXING RATIO:	By Weight	By Volume
	100 Parts Resin	100 Parts Resin
	6 Parts Hardener	10-11 Parts Hardener
IMPACT RESISTANCE:	5 - 6 kJ/m ²	
COVERAGE:	Mixed Resin: 1.65 – 1.7 g/cm ³	

Technical data sheets &
MSDS available on request

GEL
TIME



25 - 30 min

CURE
TIME



35 - 40 min



ELI-CRUSH FR453/974B CRUSHER BACKING RESIN

Eli-Crush FR/453/974/B is a filler extended Crusher Backing Resin with excellent impact resistance and exceptional low shrinkage.

- High Impact Strength
- Low Viscosity and easy pourability - even at lower temperatures
- Minimal filler settlement in containers
- Fast reactivity - good through curing properties at lower temperatures
- Good Heat Resistance
- Safety: Eli-Crush FR/453/974/B Resin is non-volatile - 100% solids, non-toxic, non-dermatitic at ambient temperatures

**WORK
TEMP**



80°C

**WORK
TIME**



10 min

Mixing and Application

APPLICATION:	By casting	
COLOUR:	Resin:	Electro Brown
	Hardener:	Brown
MIXING RATIO:	By Weight	By Volume
	100 Parts Resin	100 Parts Resin
	25 Parts Hardener	35 Parts Hardener
IMPACT RESISTANCE:	10 kJ/m ²	
COVERAGE:	Mixed Resin: 1.5 – 1.55 g/cm ³	

Technical data sheets & MSDS available on request

**GEL
TIME**



35 - 40 min

**CURE
TIME**



25 hours min

COMMON SENSE ABOUT HANDLING EPOXY RESINS

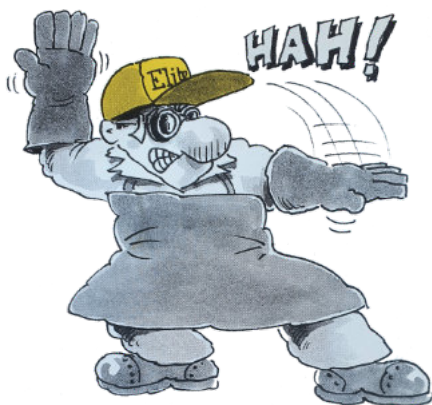
PROTECT YOURSELF

Use protective clothing and barrier creams

- wear gloves
- wear overalls and/or heavy duty apron
- wear safety glasses

If exposures to fumes, spray mist or splashes is liable to occur - wear goggles, and where necessary, a face shield and respirator

Barrier creams provide useful additional protection but are no substitute for protective clothing.



WORK SAFELY!

Keep the work area clean and tidy

- ensure that suitable ventilation is provided, especially in confined working areas. Local extraction may be necessary where there is a concentration of fumes.
- a supply of skin cleaning preparations, paper towels and adequate washing facilities should be readily available.
- use disposable containers and equipment where possible. keep tools clean
- use waste bins with disposable liners
- do not eat, drink or smoke in the work area.

PERSONAL HYGIENE

Wash and clean carefully with soap and warm water

- after finishing work
- after any skin contact with epoxies
- before smoking
- before using the lavatory

Do not wash with solvents

- cleansing creams may be a useful aid to personal hygiene
- use disposable towels
- refatting creams may help to prevent skin dryness
- contaminated clothing should be dry- cleaned before re-use.





What are epoxy resins?

Epoxy resins are chemicals which may be supplied as liquids, solids or solutions. When cured by mixing and reacting with a hardener, they are converted to solid thermoset materials used as coating or bonding agents for many materials such as steel, sand, concrete, wood and plastics.

Cured epoxy resins possess an outstanding combination of properties including mechanical strength, heat resistance and flexibility, as well as good impact, corrosion and chemical resistance.

Where are epoxy resins used?

Epoxyes find a wide range of applications in many major industries, such as construction, electrical, automotive, aircraft etc.

Safe handling

Epoxyes are reactive chemicals which require correct handling to ensure that they are used safely. This means avoiding direct exposure of the body via skin contact, inhalation or ingestion (by mouth). Ways of achieving this are outlined in this leaflet. In particular, skin contact should be avoided since this can lead to irritation and, in some cases, to skin sensitization.

These are general safety recommendations. You should also read any specific safety instructions provided by your resin supplier.

FIRST AID

Skin/eyes

If skin contact with epoxyes occurs, wash the affected areas carefully, several times. Reapply protective creams.

In the case of eye contamination wash the affected eye immediately and continuously for 15 minutes, with clean water. Inform your supervisor immediately since medical advice may be necessary.

Inhalation

If an operator is affected by inhalation of vapour or spray mist, remove to fresh air immediately. Obtain medical advice.

FIRES

Chemical fires need to be extinguished with foam or carbon dioxide - not with water or carbon tetrachloride type extinguishers. Wear respiratory and eye protection while extinguishing fires involving epoxyes.



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WE SUPPLY THE INDUSTRY



ELITE CHEMICALS 50 YEARS of Excellence

Elite chemicals is a South African manufacturer of world class epoxy systems. They cater for the mining, engineering & civil industries.

With 50 years of manufacturing experience they have nearly perfected their product offer to be the market leader, not just locally but also internationally on Epoxy Systems. With local technical support, stock holding and trade partners you can be assured of using the best epoxy system available on the market.



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