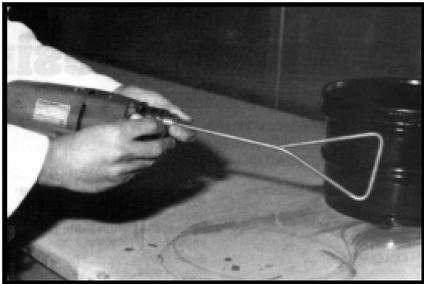


# ELI-CRUSH FR866 Epoxy Crusher Backing Resin

Revolutionary Dry packaging







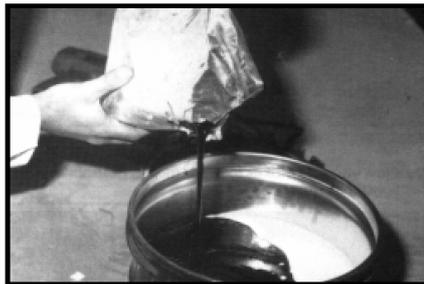
**1** Open lid of 22lbs container, remove stirring rod and insert into a power tool.



**2** Remove the big bag of resin and the small bag of hardener.



**3** Work the resin bag in your hands to mix any filler sediment build up.



**4** Open large resin bag and pour into 22lbs container. Immediately add hardener.



**5** Using stirring rod, mix resin and hardener thoroughly until a uniform color is obtained.



**6** Pour immediately after mixing. Working life is 10-15 minutes after mixing.

# ELI-CRUSH FR866 Epoxy Crusher Backing Resin

## TECHNICAL INFORMATION

**Product** : Eli - Crush FR866 Epoxy Crusher Backing Compound is a two-part, ambient temperature curing, filler extended epoxy resin with good impact resistance and very low shrinkage.

**Colour** : Resin - Brown  
: Hardener - Clear transparent  
**Mixing Ratio** : By Weight - 100 parts resin : 6 parts Hardener  
: By volume - 100 part resin : 11 parts Hardener

**NOTE** : Mix resin and hardener for 3 minutes. Use a spatula, or other flat-edged implement. Increases in temperature will shorten the working time, geltime and setting time.  
Decreases in temperature will extend the working time, geltime & setting time.

**Specific Gravity @ 25°C** : Mixed Compound 1,75 g/cm<sup>3</sup>  
**Viscosity @ 25°C** : Mixed Resin 11500 mPa.s  
**Practical Working Time (Pot Life)** : 10kg unit @ 25°C = 10-15 mins  
**Geltime @ 25°C** : 50-60 minutes ( 5mm casting )  
**Minimum Application Temp.** : 5°C

## TYPICAL CURED PROPERTIES

**Hardness after 24 hours @ 25°C** : Shore D 80  
**Shrinkage After Cure** : Maximum 0,5%  
**Elongation ( Average )** : 1 %  
**Tensile Strength** : ( DIN 53455 ) 20-25 MPA  
**Impact Strength** : ( DIN 53453 ) 5-6 kJ/m<sup>2</sup>  
**Compressive Strength** : ( DIN 53454 ) Average 55 MPA  
**Flexural Strength** : ( DIN 53452 ) 70-75 MPA  
**Lap Shear Strength** : ( ISO 4587 ) >3 MPA  
**Heat Resistance** : 70-80°C  
**Adhesion** : To cleaned and roughened metal and concrete : Excellent

**Chemical Resistance**: Excellent against water, oil, grease, detergents, diluted acids and alkaline. Resistant to solvents, aliphatic alcohols and aromatics. Against esters, ketones and chlorinated hydro-carbons, tests are recommended.

**Water Absorption**: Immersion for 24 hrs @ 25°C in diluted water – maximum 2%

**Typical Properties** : Easy pourability and good penetration even at lower temperatures. Minimal filler settlement in containers - easily mixable. Fast reactivity and outstanding mechanical properties. Good curing properties at lower temperatures.

## **TYPICAL APPLICATIONS AND USES**

Typical applications include the lining of primary and secondary cone crushers. Other applications : grinding mills, bonding, filling, fastening, grouting of holding bolts and mould making.

**Kit sizes** : 10kg ( 22lbs ) and 20kg ( 44lbs )

## **HANDLING PROPERTIES**

Eli-Crush FR866 shows no dermatitic properties and has a very low irritation potential at room temperature. It has low toxicity at ambient temperatures, however good industrial hygiene must be observed. See Precautions for Use and Health Hazard Information.

## **STORAGE STABILITY**

Eli-Crush FR866 must be stored under dry and cool conditions in tightly sealed containers. The shelf life is 12 months.

### **Approximate no. of 10kg ( 2 gallon , 21,5lbs ) kits to line various crushers**

<b><u>Crusher Manufacturer</u></b>	<b><u>Model No.</u></b>	<b><u>Crusher Size</u></b>	<b><u>No. kits for mantle bowl liner</u></b>
Nordberg Primary Gyratory	HD42-70		22
	HD54-80		38
	HD60-102		46
Nordberg Water Flush	WF500		17
	WF800		45 ( 26 with filler blocks )
Allis-Chalmers	Superior	13-36	5
		16-50	16
		24-60	16
		30-55	14
		30-70	22
		36-55	25
		42-65	36
		48-74	45
		54-74	45
		60-89	64
		60-109	88
Hydrocone		36'	1
		45'	4
		51'	5

		84'	20
Telsmith Gyrasphere	"S" Style	24	1
		36	2
		367	2
		48	4
		489	4
		66	4
		6614	8
		1100	2
		1100SX	2
		1300	4
		1500	4
		1500SX	5
	"FC" Style	24	1
		36	2
		367	-
		48	2
		489	-
		66	8
		6614	-
		1100	2
		1100SX	-
		1500	5
		1500SX	-
Symons Cone Crushers	Standard	2'	1
		3'	2
		4'	3
		4 <sup>1/4</sup> '	4
		5'	4
		5 <sup>1/2</sup> '	6
		7'	11
	Short Head	2'	1
		3'	1
		4'	2
		4 <sup>1/4</sup> '	2
		5'	2
		5 <sup>1/2</sup> '	3
		7'	5
EL-Jay Rollercone Crushers		36" Standard	1
		36" Fine head	1
		45" Standard	1
		45" Fine head	1
		54" Standard	2
		54" Fine Head	2
Pioneer Cone Crushers		48" Standard	2
		48" Fine Head	2
		54" Standard	3
		54" Fine Head	2
Traylor Crushers	"TY" range	1'3"	1
		1'8"	1

		3'	2
		4'	6
		5'6"	10
	" TC " range	30"	16
		36"	24
		42"	28
		48"	44
		54"	48
		60"	55

## **Eli-Crush FR866 Epoxy Crusher Backing Resin**

### **Applications**

**Eli-Crush FR866 is an ambient temperature curing, filler extended epoxy resin used for the lining of cone crushers. The system is also suitable for the following ancillary applications : bonding, filling, fastening, or grouting of holding/fastening bolts.**

### **Crusher Preparation**

**Block all cracks or gaps in the lining between the crusher and steel lining. If no adhesion is required, apply a grease or silicon-based release agent to the crusher bowl before casting.**

### **Safety Handling Information**

**Eli-Crush FR866 shows low dermatitic properties, toxicity and irritation potential at ambient temperatures. However good industrial hygiene should be observed i.e gloves and goggles should be worn. Store and transport under cool, dry conditions in the sealed containers supplied. Keep away from open flame.**