



# KUT EPOXY GROUTS

## Free Flow Epoxy Grouts

GAP – 02 - 0104

### DESCRIPTION

**KUT EPOXYGROUTS** are solvent free epoxy resins with polyamine hardeners. The **EPS** and **EPL** grades additionally contain inert granular powdered fillers.

They are designed for gaps from 0.3 mm to 70 mm.

**KUT EPOXYGROUT EPLV** is for gaps from 0.3 mm to 10 mm.

**KUT EPOXYGROUT EPS** is for gaps from 8.0 mm to 40 mm.

**KUT EPOXYGROUT EPL** is for gaps from 30.0 mm to 70 mm.

### USES

**KUT EPOXYGROUTS** are used for all grouting applications, especially those requiring chemical resistance and heavy duty resistance to vibrational and other dynamic or mobile loads. Applications include crane and transporter rails, compressors, high speed turbines and centrifuges, rock crushers and pulping machines and other heavy duty equipment. They can also be used for anchoring steel bar with concrete and the annular gap should be within the limits indicated. **EPLV** grade is recommended for crack injection and to fill up hollowness beneath improperly grouted machine base plates.

### ADVANTAGES

Dynamic load resistance due to high flexural, tensile and compressive strengths and excellent adhesion to concrete and metal surfaces.

Rapid installation and strength gain leading to early commissioning. Excellent chemical resistance to most acids, alkalies, oils, petrol and water.

Low creep characteristics under continuous loads.

### TYPICAL PROPERTIES

At 20° C (N/mm<sup>2</sup>)

	COMPRESSION STRENGTH BS-6319 N/mm <sup>2</sup>		TENSILE STRENGTH ASTM-C 307 N/mm <sup>2</sup>	FLEXURAL STRENGTH BS.6319 N/mm <sup>2</sup>	COMPRESSION MODULUS ASTM-C 469 N/mm <sup>2</sup>
	1D	3D 7D	7D	7D	7D
(EPLV)	-	30 70	25	50	1500
(EPS)	60	70 80	15	35	15000
(EPL)	60	70 80	15	35	15000

DENSITY POT LIFE

(mins)

10°C 20°C 30°C

<b>KUT EPOXYGROUT EPLV</b>	1.05	50	20	10
<b>KUT EPOXYGROUT EPS</b>	1.95	80	40	20
<b>KUT EPOXYGROUT EPL</b>	2.05	100	50	25

### FLOW

Flow is dependent upon gap width, grout head (100 -300 mm is normal) and temperature. At 20° C a 200 mm head and average gap width, the flow is in excess of 1 m.

### LIMITATIONS

Do not apply at temperatures less than 5° C. Ensure that all surfaces are substantially dry. Ensure that the filler is added to the mixed base and hardener immediately after mixing to reduce the heat evolved. The **EPLV** grade should be poured soon after mixing to reduce the increase in temperature due to the exotherm.

### APPLICATIONS

Clean the concrete, removing any loose material, laitance, grease and oil, fix standard formwork ensuring that the area is grout tight. The metal surfaces should be grease and oil free and any rust or paint should be removed by grit blasting or wire brushing.

Pour the hardener into the base can and mix thoroughly for 3 minutes.

Pour the mix into suitable clean tub and add the filler gradually whilst mixing with a low speed drill and paddle. Alternatively use a mechanical mixer for 2 to 5 minutes until a consistent grout is obtained. Pour the grout quickly into position.

When pouring the grout, ensure that sufficient grout is available to maintain a grout head until the pour is complete.



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**NOTE:** When working in open areas and in large grout pours, additional aggregates of size 3/8" which is clean dry and of good quality may be added. The proportions are dependant on gap dimensions and mix consistency required. Usually upto 10kgs of this aggregate may be added per pack of **KUT EPOXYGROUT 'EPL'**. The strengths obtained are generally 5-10% higher.

### PACKAGING & YIELD

**KUT EPOXYGROUT EPLV** 1.0kg Pack  
Yield: 0.950 litre

**KUT EPOXYGROUT EPS** 10.8kg Pack  
Yield: 5.535 litre

**KUT EPOXYGROUT EPL** 21.6kg Pack  
Yield: 10.530 litre

### PRECAUTIONS

**Cleaning** : Spillages should be absorbed with sand or earth etc. and disposed in accordance with local regulations.

**Storage** : Store in dry conditions upto 20° C. Shelf life 12 months.

**Fire resistance** : The product is not flammable but will burn in a fire.

### PERFORMANCE STANDARDS

**ASTM-C 881-87 - Type I, IV & VI, Grade 2, Class B & C Passes ASTM-C 883 & ASTM-C 884**

### HEALTH AND SAFETY

**KUT EPOXYGROUTS** should not come in contact with skin and eyes or be swallowed. Avoid prolonged inhalation of vapours. Some people are sensitive to epoxy resins, therefore, protective gloves, goggles and barrier creams should be used. Ensure adequate ventilation and if working in enclosed areas suitable breathing apparatus must be used.

If mixed resin comes in contact with skin, it must be removed before hardening with a resin removing cream, followed by washing with soap and water. Contamination of skin by non resin based products should be removed immediately with soap and water. Should accidental eye contamination occur with any of the above products, wash well with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately. Do not induce vomiting.

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