



# KUT CP ANODE GROUT

## Grout For Cathodic Protection

GAP – 10 - 0104

### DESCRIPTION

**KUT CP ANODE GROUT** is supplied as a ready to use dry powder requiring only the addition of water to produce a free flowing grout. The product is a careful blend of cements, graded silica sands, silica fume, water reducing agents and expansive agents. It does not contain any vinyl or acrylic polymers.

### ADVANTAGES

- ★ **Non-shrink** : Positive expansion in plastic and in early hardened states.
- ★ **Constant Quality** : Factory controlled prepacked material.
- ★ **Workability** : Can be trowelled, poured or pumped Workable for approximately one hour. No segregation or bleeding.
- ★ **High Early Strength** : Ensure rapid installation and early operation of plant.

### USES

Fluid grout with dual expansion for protecting and encasing iron in concrete. Can be poured or pumped for a wide range of applications. Can be used from a trowellable to a free flow grout consistency. It is suitable for use in marine environments.

### TYPICAL PROPERTIES

Compressive Strength **BS 1881, Part 116**  
Cubes cured under restraint.

Age	Compressive strength (N/mm <sup>2</sup> )			
	At 20°C		At 5°C	
Days	Trowellable	Flow	Fluid	Flow
1	32	22	14	6
7	55	46	33	27
28	79	62	56	54

- ★ **Wet Density** : **BS 1881** - 2250kg/M<sup>3</sup>, giving a yield of 12.5 litres per 25kg bag at flowable consistency.
- ★ **Flexural Strength** : Flowable consistency at 20°C 28 days – 10 N/mm<sup>2</sup>.
- ★ **Young's Modulus** : 28 kN/mm<sup>2</sup>.
- ★ **Setting Time** : The initial set at a flowable consistency is 5 hours.

### Expansion Characteristics

An initial expansion of 1 to 2% overcomes plastic settlement in the unset material. Expansion in the hardened state compensates for drying shrinkage.

### Electrical Resistivity

The electrical resistivity is between 15,000 and 25,000 **Ohm.cm** measured by a calibrated hand held instrument using the four probe Werner method at 13% water and after curing for 7 days.

### Bond Strength

The bond strength to concrete as measured by direct pull off is not less than **1 Mpa**

### Maximum Aggregate Size

The maximum aggregate size is 2 mm.

### APPLICATION

#### Surface Preparation

Remove oil and grease by blasting or scabbling. Clear entire area with oil free compressed air. Holes should be deformed and clean. Ensure that all holes are soaked with water and are grout tight.

#### Mixing

Place required water in mixer, 2.75 litres water to give plastic consistency, 3.25 litres flowable and 3.75 litres fluid consistency. Add 25 kg bag of grout and stir with slow speed paddle or mechanical mixer. Do not use colloidal mixer. Mix for 1-5 minutes, to obtain lump free grout.

#### Placing

Pour grout from one side only maintaining a hydrostatic head with continuous supply of grout until grout comes part way up at end form. Alternatively grout can be pumped into position.

#### Curing

When grout is set, cure exposed surfaces according to good standard concreting practice.

### PACKAGING

**KUT CP ANODE GROUT** is available in 25 kg bags.



Specialities Construction  
Chemicals Factory

Amghara Industrial Area, P.O.Box: 23595 Safat, 13096 Kuwait, Tel: +965 4565165 - 4565145 Fax: +965 4565135  
Email: technical@aspeckuwait.com



## PRECAUTIONS

### Limitations

Thickness in any pour should be between 10 and 30mm. Temperature of application should be as per standard concreting practice and should be between 5° to 40° C.

### Cleaning

All equipment must be cleaned with water immediately after use: Mixes containing this product must not be emptied into drainage system.

### Protection

All work to be protected from rain and frost until fully hardened.

### Storage

Shelf life is 12 months when stored in dry conditions at moderate temperature and humidity.

### Fire Resistance

**KUT CP ANODE GROUT** is not flammable.

## HEALTH AND SAFETY

**KUT CP ANODE GROUT** is non toxic but is mildly alkaline. Gloves should be worn during application. Splashes to the skin or eyes should be removed with cold water. In the event of prolonged irritation, seek medical advice immediately.

**ASPEC** endeavours to ensure that any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

**Distributor:**