

KUT CP ANODE GROUT

Grout For Cathodic Protection

GAP-10-1110



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.

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

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.

TYPICAL PROPERTIES

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

Age	Compressive strength (N/mm ²)			
	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/M³, giving a yield of 12.5 litres per 25kg bag at flowable consistency.

- **Flexural Strength:** Flowable consistency at 20°C 28 days – 10 N/mm².
- **Young's Modulus:** 28 kN/mm².
- **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.



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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.

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°C 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.

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