

# CAPGROUT ADMIX

PLASTICIZING AND EXPANDING GROUT ADMIXTURE

## DESCRIPTION

CAPGROUT ADMIX is a powder admixture consisting of expansive additive, plasticizer and catalyst. The CAPGROUT ADMIX provides wet volume expansion by micro bubbles, and increases fluidity without segregation. Full expansion is achieved before initial setting occurs, resulting in a high degree of interfacial contact.

## COLOUR

Brown.

## USES

For bed grouting, duct grouting and general void filling. (For precision grouting and load bearing operation use CAPGROUT GP).

## ADVANTAGES

- Provides positive gaseous expansion to counteract shrinkage and sedimentation in cementitious grout.
- High fluidity; easier to pump or place.
- Low water/cement ratio obtainable which reduces permeability, improves strength and durability.
- Contains no metallic iron content, chloride or other deleterious materials.

## TYPICAL PROPERTIES

**Appearance:** Fine brown powder.

**Chloride content:** Nil to BS 5075: 1982.

**Flash point:** None.

### Expanding properties:

At recommended dosage the expansion of grout containing CAPGROUT ADMIX is sufficient to overcome plastic settlement when measured accordance to ASTM C 940. The grout forms a firm and uniform bond to the concrete and steel along the length of tendon as well provides good protection to the cable.

CAPGROUT ADMIX typically provides 1 to 4% expansion.

### Plasticizing Properties:

CAPGROUT ADMIX improves fluidity of the grout, even at reduced water/cement ratios, resulting higher compressive strength, reduce permeability and better durability.

### Compatibility:

CAPGROUT ADMIX is compatible with all type of portland cement except high alumina cement.

## DIRECTIONS FOR USE

For best results, a mechanically powered grout mixer must be used. Small quantities can be mixed with a slow paddle.

It is important that sufficient materials, equipment and personnel are available to enable the grouting operation to be carried out continuously. Agitation by suitable means should be provided in the storage facility.

First add water to the mixer and then the Portland cement, GROUT ADMIX and sand (if any is being used). Continue mixing for 3 minutes or until complete dispersion of the grout has been obtained. Pass the mixed grout with 4.75mm (No. 4) screen, before reaching the pump.

### Dosage:

For neat cement grouts and 1:1 cement: sand grout use 250 gm of CAPGROUT ADMIX per 50 kg of cement.

### Typical Mixes

OPC kg	Wash sand kg	Water Liters.	Grout Admix gm	Yield approx later	Compressive strength; kg/cm <sup>2</sup> 28 days
50	---	20-21	250	36	≥ 350
50	50	22.5-23.5	250	57	≥ 300

### Overdosing

Marginally overdosing will increase both workability and volume of gas liberated. Drastic overdosing causes increase in expansion, retarding of set and strength development and frothing of the mix.

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## . Application:

Areas to be grouted require thorough preparation in the conventional manner to provide a clean, sound substrate free from defects or contaminants. Pre wet the surfaces to be grouted removing excess free water.

The grout should be poured, pumped, injected or trowel led into place within 30 minutes of mixing, to achieve optimum expansion characteristics.

## Curing:

Good curing is essential using standard procedures to prevent rapid water loss. Apply a membrane curing compound **Curacoat-P** or **Curacoat-R** or cover with wet burlap for 48 hours.

## PACKAGING

CAPGROUT ADMIX is supplied in 5 kg and 10 kg bags each containing

20 x 250 gm units = 5 kg

40 x 250 gm units = 10 kg

## STORAGE

CAPGROUT ADMIX should be stored over pallets in a cool dry place.

## SHELF LIFE

12 months in unopened bags.

## SAFETY PRECAUTIONS

CAPGROUT ADMIX does not contain toxic materials. Care should be taken to avoid inhalation of dust and prevent material entering into eyes.

## TECHNICAL SERVICE:

Our Technical Service Department is available at any time to advise you in the correct use of this product or any other Ahlia products.

**Note :** The information presented herein is based on the best of our knowledge and expertise for which every effort is made to ensure its reliability. Although all the products are subjected to rigid quality tests and are guaranteed against defective materials and manufacture, no specific guarantee can be extended because results depend not only on quality but also on other factors beyond our control.

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