CAPGROUT GP

NON SHRINK CEMENTITIOUS GROUT

DESCRIPTION

CAPGROUT GP is a ready mixed, durable, shrinkage compensated, non-ferrous, high strength load bearing grout for interior and exterior use. It contains a balanced blend of hydraulic binder, selectively graded silica sand, flow enhancing chemicals and inorganic shrinkage compensating additive which results in a dense homogenous mix, yielding high strength and dimensional stability, followed by slight but controlled expansion at the time of placement. **CAPGROUT GP** remains stable without failure from compressive loading, impact and lateral thrusts.

COLOUR

Grey.

USES

CAPGROUT GP is used for free flow, shrinkage compensating grouting, to provide heavy duty support beneath load bearing units, machinery bases, structural columns, equipment bases, pre-cast tee joints, precast concrete repair, power line stanchion posts, tensioned cables, oil refineries, anchor bolts, sealing of tie rod holes and for similar applications.

ADVANTAGES

- One step grout; ready to use.
- Controlled expansion. Expansion occurs both in the plastic and in early hardened stage.
- High early strength.
- Contains no added chlorides, iron or gypsum. Will not rust, bleed or harm metal on contact.
- Densification increases weather ability and decreases permeability.

STANDARDS

Complies with ASTM C 1107-91 grade A.

APPLICATION INSTRUCTIONS

Surface preparation:

Concrete surface must be structurally sound, clean, and free of loose or deteriorated concrete particles, dust, dirt, oil, paint, curing compound and other contaminants that could impair adhesion. Smooth substrates must be abraded to ensure proper bonding. Shim and anchor the support elements to prevent movement. Saturate prepared area with potable water for 12 to 24 hours before application. Remove excess water from holes and voids. Use oil free compressed air to blow out bolt holes and pockets as necessary.

Ensure that the form work is secure and watertight to prevent movement and leakage during the placing and curing of grout. The area should be free of excessive vibration. Shut down adjacent machinery until the grout has hardened. Caulk and seal forms with **CAPGROUT GP** to prevent leaking.

Mixing:

CAPGROUT GP requires only potable water for mixing. Set up mixing equipment near the grouting area. Dampen the inside surface of the grout mixer. Add 90% quantity of specified water into the mixer. Add slowly **CAPGROUT GP**. Add additional water while mixing to bring to the desired consistency. Mix the batch for at least five minutes until a smooth uniform, lump free consistency is achieved.

Application:

Mix **CAPGROUT GP** in sufficient quantities to ensure continuous flow at the time of placement. Maintain a minimum 15cm head of pourable grout mix , to allow for grout flow, proper filling and air venting. **CAPGROUT GP** can be pumped with most types of pumping equipment. On the side where the grout has been poured, allow 15cm clearance between the side of the form and the base plate of the machine.

At **pourable plastic** consistency use chain rods or tamping to compact grout and remove voids. For **dry packing** make the mix damp enough to maintain cohesiveness when squeezed into a ball in the palm of your hand. A hydraulic or pneumatic ram is suggested for packing. Even a wooden tamper may be used. Pack only from one side to avoid voids.

If the thickness of the grout is more than 50mm, dry washed aggregates can be mixed with **CAPGROUT GP**. The aggregates should be restricted to a maximum of 2:1 by weight of **CAPGROUT GP**.

.

State of Kuwait - North Subhan Area, Block # 6 Street #105, P.O. Box # 24297 Safat 13103 - Tel.: +965 24733364 - Fax : +965 24723128
www.ahliachemicals.com sales@ahliachemicals.com

CAPGROUT GP

NON SHRINK CEMENTITIOUS GROUT

Curing:
Immediately after removal of form work, cure the **CAPGROUT GP** using standard curing procedures. To prevent rapid water loss, apply a membrane curing compound **CURACOAT-P** or **CURACOAT-R** or cover with wet burlap for 48 hours.

Note:

- Handle **CAPGROUT GP** like concrete. Do not exceed limitations set by the A.C.I on placement of concrete.
- Exposed finished grout must be cured.
- Do not add any cement or any other additives to **CAPGROUT GP**.
- Do not re-temper grout after initial mixing.
- Do not over-water.
- Do not overwork and avoid using mechanical vibrator.

PACKAGING

CAPGROUT GP is supplied in 20 kg bags.

STORAGE

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

SHELF LIFE

12 months in unopened bags.

SAFETY PRECAUTIONS

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

PROPERTIES

Properties	Consistency		
	Plastic	Flowable	Stiff Plastic
Mixing water; per 20 kg bag	2.0 to 2.23 lts	2.24 to 2.35 lts	1.92 to 2 lts
Flow %	100 to 125	125 to 145	N.A
Setting time ASTM C-191 at 25^0C			
Initial; hrs	2 to 2 ½	3 ½ to 4	1 ½ to 2
Final; hrs	3 ½ to 4	5 ½ to 6	3 to 3 1/2
Compressive strength kg/cm^2			
1st day	300	280	----
3rd day	470	440	----
7th day	550	500	----
28th day	650	610	750
Early age height change %; ASTM C-827	0 to 4 %	0 to 4 %	0 to 4 %
Unit weight; kg/m^3	2.38±0.1	2.36±0.1	2.39±0.1

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.

As all Ahlia Technical Data Sheets are updated on a regular basis, it is the user responsibility to collect most recent issue.

State of Kuwait - North Subhan Area, Block # 6 Street #105, P.O. Box # 24297 Safat 13103 - Tel.: +965 24733364 - Fax : +965 24723128
www.ahliachemicals.com sales@ahliachemicals.com