



Arina Polymer

شرکت آرینا پلیمر

تولید کننده انواع اپوکسی های ساختمانی

## Arina-grout CGM 150

**Cementitious grout mortar, High strength structural material**

### Introduction:

**Arina-grout CGM 150** is a ready to use product in powder form, which requires on-site addition of water to produce a high flow-able shrinkage compensated grout. The product is fine graded, designed and suitable for grouting in thicknesses of 5 to 40 mm. It can also be used for production of high strength and shrinkage compensated concrete when mixed with aggregates.

### Where to use:

**Arina-grout CGM 150** is formulated for use at plastic or flow-able consistency, and may be used with confidence for bedding, grouting, anchoring and void filling. It also can be used for columns and piles re-profiling. **Arina-grout CGM150** is suitable for following applications:

- Structural filling of holes and cavities in concrete.
- Filling thin layers under base plates of constructions subjected to static loads.
- Capping or leveling columns.
- Anchorage and fixing of bolts and dowel bars.

### Technical information:

Appearance	Grey powder
Specific gravity	1.4kg/l
Working time/ pot life	45 min (25°C )
Mixing water	7.5 to 8.5 liters per each 25 kg bag
Full cure	After 28 days ( at 25°C )
Compressive strength	16 MPa ( 24 hours ) 28 MPa ( 3 days ) 40 MPa ( 7 days ) 48 MPa ( 28 days )

### Advantages:

- Excellent adhesion to concrete, steel, and most construction materials.
- Easy to mix and apply.
- Low odor and user friendly.
- Excellent flow-ability when mixed with water.
- Shrinkage compensated.
- Will not corrode reinforcement.
- Early strength development, even at flow-able consistency.
- No priming required.

### Surface preparation:

The substrate must be sound and free of loose particles. Remove dust, laitance, oil, grease, curing compounds, waxes, disintegrated and other bond inhibiting materials from the surface. Surface can be prepared by blasting methods, grinding, or chipping. Substrate must be saturated but free from standing water before application. Particular attention should be paid to bolt holes to ensure that they are free from standing water. Use oil free compressed air to blow out bolt holes and pockets as necessary.

Base plates and bolts must be clean and free from oil, grease and paint. Set and align equipment accurately before grouting. If spacers should be removed after the grout has set, then lightly grease them for easy removal. Ensure formwork is secure and watertight to prevent movement and leaking during the placing and curing of the grout.



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**Mixing:**

Use power mixer for large productions, and use a low speed drill fitted to the suitable paddle to mix one bag with water. Damp down the inside of the mixer, but free of standing water. Add the pre-measured quantity of water to the mixer. Add *Arina-grout CGM 150* slowly in continuous mixing. Mix for 3-5 minutes until a smooth, uniform, lump free consistency slurry is achieved. No longer mixing time is permitted as cause shrinkage of grout.

**Placing:**

Place *Arina-grout CGM 150* immediately after mixing into the prepared area from one end, continuing to ensure full filling of spaces and being appeared from other sides. Pour the grout continuously maintaining a constant hydrostatic head wherever possible. This product is suitable for use with most types of injection pumps.

**Curing:**

Curing is essential, immediately after placing *Arina-grout CGM 150*, cover all exposed grout surfaces with clean wet sackcloth or tissue and keep them moist till strength gaining (about 5 days). Using curing compound is recommended when clean water is not available.

**Material consumption:**

Each 25 Kg. bag of *Arina-grout CGM 150* yields about 13 liters grout.

**Limitations:**

Minimum layer thickness: 5 mm

Maximum layer thickness: 40 mm

Age of concrete must be 21~28 days, depending upon curing and drying conditions.

**Cleaning:**

All tools and equipment should be washed with water after each job or before break time. Cured material can only be removed mechanically.

**Storage / Shelf life:**

Store out of direct sunlight on pallets, and protect from moisture and rain fall. The shelf life for originally unopened package is 12 months from date of production.

**Packaging:**

*Arina-grout CGM 150* is available in 25 Kg. PP bags.

**Safety precautions:**

Like other cement based materials, this product may cause skin irritation. Use personal safety devices such as gloves and goggles. If contacted with eyes or mucous membrane, wash immediately with plenty of water and seek medical attention.