

ARACO GROUT 150

High Performance, Expanding, Non-Shrink Cementitious Grout

Product Description

ARACO GROUT 150 is a high performance, non-shrinkage compensating with special formulation blended with high performance cements and polymers. It can be easily mixed for grouting and anchoring. ARACO GROUT 150 contains no iron particles, chlorides or gypsum, and will not corrode, shrink, rust or ravel even under moist conditions. It is a ready-to-use product in powder form, which requires only the onsite addition of water to produce a non-shrink grout of predictable performance.

ARACO GROUT 150 is a development of typical properties of the pre-mixed polymer modified mortars.

meets the requirements for ASTM C1107-91, Grade B.

Applications

ARACO GROUT 150 is a high-performance shrinkage compensating mortar with excellent adhesion and compressive strength. It is used as bedding and grouting mortar in the following applications:

- Grouting anchor bolt and dowel fixation.
- Pre-cast elements
- Gas or steam turbines
- Generators
- Presses
- Crane rails
- Milling machines, Generators & turbines.
- Bridges' bearings.



Package: 25 Kg Bags

Consumption: 20 Kg / 1 m² / 1 cm

Advantages

- Non-shrink
- Impermeable.
- High bond strength to steel and concrete
- Early strengths development.
- Proven and predictable performance
- Adjustable consistency from fluid to trowel applied consistency
- Excellent workability at high ambient temperature.
- Micro silica content enhances strength and durability
- Good fatigue and impact resistance.

Surface Preparation

Concrete Surface:

- The surface to be coated must be clean, sound, dust free and uncontaminated.
- Remove Loose parts, form release agents, cement laitance and paint.

- Bolt holes and fixing pockets must be blown clean of any dirt or debris. use compressed air to drain out bolt holes and pockets.
- Wash the substrates with clean water for 24 hours prior to grouting to minimize localized absorption and to assist in the free flow of the grout and remove any excess water at the time of application to achieve SSD Condition.
- Surfaces should be damp but free of standing water.

Base Plate

- Base plate and anchor bolts must be clean and free of oil, grease and paint etc.

Formwork

- Ensure formwork is secure and watertight to prevent movement and leaking during the placing and curing of the grout.

Note: The area should be free of excessive vibration. Shut down adjacent machinery until the grout has hardened. In hot weather, base plates and foundations must be shaded from direct sunlight. Bags of grout should be stored in the shade prior to use.

Mixing

- Mix using mechanically powered grout mixer for every 25kg add 3 to 3.25 liters of water
- Damp down the inside of the grout mixer with water prior to mixing the initial batch of ARACO GROUT 150.
- Ensure the mixer is damp but free of standing water.
- Add 90% of the pre-measured quantity of water.
- Slowly add the ARACO GROUT 150, mixing continuously.
- Mix for 2 minutes until a smooth, uniform, lump-free consistency is achieved.
- Then add the remaining water and mix for a further 3 minutes
- In hot weather, use chilled water. The temperature of the mixed mortar should not exceed 30°C.
- In cold weather, use warm water. The temperature of the mixed mortar should be above 10°C.

Product Application

Placing

- ARACO GROUT 150 should be poured immediately while it is still fresh. It should be poured continuously.
- Should any delay occur, do not add water.
- Lengths of metal strapping laid in the formwork prior to placing may be necessary to assist grout flow over large areas and in
- compacting and eliminating air pockets.
- Pouring of the mixed grout should be started from one side only to avoid air entrapment.
- To obtain maximum flow distance, maintain a constant hydrostatic head, of at least 15cm.
- On the side where the grout is to be poured, allow 10cm clearance between the side of the form and the base plate of the
- machine.
- On the opposite side, allow at least 10cm clearance between the formwork and the base plate to allow the grout to flow
- through without entrapping air.

Shoulders

- Avoid exposed shoulders as they may crack or de-bond due to the difference in temperature between the grout under the base plate and the exposed shoulder.
- If shoulders are required, they should be anchored to the substrate to minimize forming cracks or de-bonding. Keep shoulders as small as possible.

Curing

- Immediately after placing **ARACO GROUT 150**, cover all exposed grout with clean damp hessian and keep moist until grout is firm enough to accept a curing membrane.
- We recommend the use of a curing membrane from our **ARACO CURE W**.

Recommendations

- The temperature of both the mixed grout and elements coming into contact with the grout should be in the range of +5°C to <35°C.
- Do not use water in an amount or at a temperature that will produce a consistency more than fluid or cause mixed grout to bleed or segregate.
- **ARACO GROUT 150** should be laid at a minimum thickness of 10mm and to a maximum depth of 80mm.
- For more thickness is required, consider using **ARACO GROUT PLUS**. OR you can consult ARACO's technical department for advice.
- Do not use mechanical vibration.
- Do not pour **ARACO GROUT 150** in direct sunlight.
- Bags of grout should be stored in the shade prior to use.
- To simulate on-site conditions, it is necessary to restrain cubes for the first 24 hours immediately after casting.
- When a very rapid set is required in areas subject to chemical spillage or contamination, use epoxy grout **ARACO EPOGROUT** range.

Technical Data

Density	2.1 Kg/m ³
Compressive Strength	>60 N/mm ² ASTM C 307
Flexural strength	8 - 10 N / mm ² ASTM C 307
Bond strength	3 N/mm ² ASTM C 1583
Application thickness	10 mm per pour 800 mm per pour
Pot Life	30-40 minutes @ 25°C

Product Data

Composition	Hydraulic binders, modified shrinkage-compensated powders, special fillers, and polymers.
Appearance	Grey powder
Grain size	3 mm
Storage condition	Store in a dry area between 5°C and 35°C. Protect from direct sunlight
Shelf Life	12 months minimum from production date if stored properly in original an opened packaging

Safety Instructions

The product may cause skin irritation. Wear gloves and goggles and apply barrier cream to your hands. In contact with eyes or mucous membrane. flush immediately with plenty of warm water and seek medical attention without delay.

Legal Notes

The information, recommendations, and application are based on ARACO current knowledge and experience of the products when properly stored, handled, and applied under normal conditions. ARACO products are guaranteed against defective materials and manufacture and sold subject to standard conditions. Users should always refer to the most recent technical data sheet for the product concerned, copies of which will be supplied on request.

More from ARACO

A wide range of construction chemical products is manufactured by ARACO which include:

- Premixed mortar
- Tile adhesives & Grout
- Concrete Repair
- Flooring systems
- Protective Coating
- Waterproofing
- Bonding Agents
- Concrete Admixtures
- Surface Treatments
- Grout & Anchors
- Sealants
- Sports Flooring