

ARACO EPO GROUT Formerly Known as ARACO EPO GROUT100)

Solvent-Free, High Strength, Free Flow Epoxy Grout

Product Description

ARACO EPO GROUT is three component, solvent free and easily mixed on site to a pourable consistency. ARACO EPO GROUT is a free-flowing epoxy grout specially developed for heavy duty and structural support under both static and dynamic situations. ARACO EPO GROUT when mixed will produce a high flow, non-shrink, excellent adhesion, chemical resistant & masonry epoxy grout for concrete. the Minimum grout depth:15mm & Maximum grout depth: 150 mm. Where greater thicknesses are required, pour in two sections leaving 6 hours between each pour or consider the use of ARACO

EPO GROUT PLUS

Applications

ARACO EPO GROUT is suitable for use on:

- Bridge bearing plates
- As a self smoothing mortar for repairing and
- patching horizontal surfaces
- Grouting under equipment, including heavy impact and vibratory machinery, reciprocating engines, compressors, pumps, presses, etc
- Anchors and fixing bolts
- Filling of large voids in concrete floors and slabs where the use of an epoxy resin material is appropriate .
- Crane and transporters rails .
- Waterproofing layer for pile cap .
- Steel columns for warehouse
- Bedding for industrial equipment subject to dynamic forces

Product Advantages

- Solvent-free.
- No priming required
- High tensile, flexural and compressive strength.
- High mechanical strengths.
- Excellent adhesion to steel and concrete.
- Rapid installation and strength gain to ensure early commissioning of equipment
- Shrinkage-free hardening
- Unaffected by wide range of chemicals and oil . etc.
- High resistance to dynamic loads
- Non-shrink and tolerant to damp surfaces.
- Variable application thickness.
- Tough vibration-resistant material



Package: 30 & 50 Kg units

Consumption: 2 kg/m² per 1 mm of thickness.

Surface Preparation

Concrete Surfaces:

The quality of surface preparation has a direct effect on the performance and durability of the system, So that:

- The surface must be clean, sound, dust free and uncontaminated.
- Remove Loose parts, dust, oils, grease and cement laitance.
- It has to be cured Protected from underneath moisture attack <4% prior to application of ARACO EPO GROUT to avoid the stresses induced by hygrometric shrinkage in the concrete being concentrated at the interface of the joined parts

Steel Surfaces:

- Metallic surfaces must be free of all traces of rust, paint and/or oil preferably by means of sandblasting down to bare metal.

Steel Surfaces:

- if used, should be wrapped in polythene to ensure a clean release.

Mixing Ratio

3:5:1 (Powder: Resin)

Mixing

- The three components of ARACO EPO GROUT have to be mixed together.
- Pour component B into component A and mix them together with a drill fitted with a low-speed mixer until a completely homogeneous paste is formed.
- Gradually add Component C (Filler) while mixing, continue mixing till homogenous and consistency is achieved.
- Leave the mixture for 3 minutes. Then re-mix for 3 minutes. Do not mix for more than 3 minutes.
- The packages are already pre-dosed. Therefore, avoid using only partial quantities of the only partial quantities.
- The mixed materials shall be used immediately after mixing within the open time: 40 minutes @ 20 °C

Product Application

ARACO EPO GROUT is applied by pouring and, where necessary, into sealed formworks. The ambient temperature has an effect on the setting time of the product ARACO EPO GROUT has a pot life around 30 minutes @ 20 °C. ARACO EPO GROUT must be applied within the indicated pot life with Minimum grout depth: 15mm & Maximum grout depth: 150 mm

Chemical Resistance

The resistance of ARACO EPO GROUT to chemicals is excellent:

- Dilute and concentrated alkalis
- Most dilute acids
- Oil and petrol
- Mineral oil, vegetable and animal fats

Product Data

Composition	Epoxy resin base is a low viscosity liquid reactor
Appearance	Dark grey
Storage condition	Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates, the product must be stored in an air-conditioned environment.
Shelf Life	12 months minimum from production date if stored properly in original unopened packaging.

Technical Data

Density of mix	2 ± 0.1 Kg/L	
Solid content by volume	100%	
Pot Life of the mix	40 min @20°C	
Application temperature range:	From +10°C to +30°C	
Setting Time	6 - 8 hours	
Tensile strength (7 days)	35 N/mm ² ASTM C-638	
Bond strength (7 days)	> 4 N/mm ² Concrete failure ASTM C-882	
Compressive strength (1 days)	>80 N/mm ²	
3 days	>90 N/mm ²	ASTM C-579
7 days	>100 N/mm ²	
Flexural strength (7 days)	>44 N/mm ²	ASTM D 790
Water absorption	>0.178	ASTM C 413

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.