



FARCO GROUT 900

Expanding Agent for Grout and Concrete

Product Description

FARCOGROUT 900 Expanding Agent is a grouting aid for Portland cement. It produces a controlled expansion prior to hardening, 900 is used where a non-shrink grout or concrete of superior quality is required.

Application

- Making non-shrink grout for filling gaps
- Making grout for machinery base plates
- Neat cement grouting for cable ducts, ground anchors, stabilization work, etc.
- Concrete mixtures which need to eliminate shrinkage, control expansion.

Advantages

- Formulating highly flowable grouts with FARCOGROUT 900 in combination with a superplasticizer such as FACOPLAST P10N,P10-3R or M20, M20R
- Provides a volume increase to wet mixes helping to fill voids in tunnel linings, cable ducts, etc.
- Compensating the plastic shrinkage of cementitious mixtures before setting and positive expansion.

Standard Compliance

FARCOGROUT 900 is evaluated according to the following standards: ASTM C1107, C827, and C940.

Product Data

Appearance	cream powder
Specific Gravity	1.6 kg/l
Chloride	None

Preparation for Grouting and Concreting

- For grouting, concrete surfaces must be structurally sound, free of grease, oils, coatings, dust, curing compounds and other contaminants. Saturate the prepared area with potable water for 6 to 24 hours before application and remove excess water prior to grouting.
- The dosage rate is 500 gr per 100 kg cement, it is recommended to adjust the optimum dosage according to the cement type, nature of aggregates, temperatures and required expansion.
- The superplasticizer dosage is determined according to the required flow, nature of aggregate, type of cement and w/c ratio.

Mix Design (1)

Thickness of grouting	5mm	10mm	20mm
Sand Sizes(mm)	0.1-0.5	0.3-0.5	0.3-1.2
Sand content (kg)	100	100	100
Cement (kg)	100	100	100
FARCOGROUT900(gr)	500	500	500
Superplasticizer(gr)	500-1000	500-1000	500-1000

Mix Design (2)

Thickness of grouting	30-80mm	>80mm
Sand Sizes(mm)	0.8-2.5	0.5-5
Sand content (kg)	100	100
Gravel Sizes	-----	5-12
Gravel content(kg)	-----	200
Cement (kg)	100	100
FARCOGROUT900(gr)	500	500
Superplasticizer(gr)	500-1000	500-1000

Mixing

- Grout and slurry: Pour the measured clean water into the mixer, add the superplasticizer and then slowly add the cement (and sand if required) and FAR-

FARCO GROUT 900

COGROUT900. Mix continuously for 5 minutes, making sure that a smooth even consistency is obtained.

- Concrete: For dry mixing process add FARCOGROUT900 with cement. For wet mixing process, add FARCOGROUT900 prior to placement and mix for 3 to 5 minutes before casting.

Formwork and Placement

- The forms on the placement side should extend above the bottom of the plate to form a head box. The head box should begin (50 to 100 mm) from the plate and slope away from the plate at about 45 degrees. The slope on the form permits the grout to be poured under the plate with a minimum of turbulence and air entrapment. The form on the opposite side should be (50 to 100 mm) from the plate and should extend at least 1 in. (25 mm) above the bottom of the plate.

- The recommended internal temperature of mixture is 15-28 °c.

- Place the grout within 20 minutes of mixing to gain the full benefit of the expansion process.

- All placements should be made from one side of the plate. Placement should begin at one end of the plate and continue at that point until the grout rises above the bottom

of the plate on the opposite side of the plate.

Adjust the water content according to the dosage rate, strength, flow, cement and aggregate nature.

- Adjust the flowability to have a non-bleeding and non-segregating mixture

- Wet cure the placed grout for almost 5 days.

⦿ Packaging

FARCOGROUT 900 is supplied in 1, 10 and 25 kg pails.

⦿ Storage and Shelf Life

1 year when stored in the unopened container in a dry location.

⦿ Safety and Handling Precautions

FARCOGROUT 900 is of low hazard. Contact with skin and eyes, or inhalation of dust should be avoided. Wear suitable protective clothing, gloves and masks. In case of contact with eyes rinse with plenty of water and seek medical care.

⦿ Technical Service

The SHIMISAKHTEMAN Technical Service Department is available to assist you in the correct use of our products in the field.



242 Bldg., Mirdamad Blvd., After Naft St., Tehran. Iran

Tel: +98 21 (22263100 , 22263099 , 22259736) Fax: +98 21 22260586



+98 21 27427