

# REC GROUT 718 NS

NON-SHRINK GROUT

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## DESCRIPTION

REC GROUT 719 NS is a high-strength pre-packed non-shrink cementitious pumpable grout consisting of Portland cement, selected graded silica sand, mineral accelerator, and other high performance additives. All additives used are chloride-and-alkali-free. It is specially designed for application on general repairs to concrete structure.

## PRIMARY APPLICATION

- Repair of spalling concrete and honeycombs
- Machinery foundations
- Column to column in precast construction
- Anchor bolt and bars
- Cavities and voids
- Rail beds or post to slabs

## FEATURES/ BENEFITS

- Premixed to ensure good and consistent quality with non-shrink properties.
- High early strength development,  $\geq 25 \text{ N/mm}^2$  (1 day).
- High ultimate strength with good impact resistant,  $\geq 60 \text{ N/mm}^2$  (28 days).
- Easy to mix to different consistency and apply (i.e. flowable, pourable, stiff).
- Non-corrosive and chloride free.

## APPLICATION PROCESS

### SURFACE PREPARATION

- Remove all deteriorated concrete, dirt, oil, grease, and other bond inhibiting materials from surface.
- Reinforcement bar should be blasted to bare metal and treated with rust inhibitor.
- Flood the grouting zone with clean water, remove stagnant water including those trapped in pockets or bolt holes.
- Substrate should be saturated-surface dry and free of surplus water prior to application.
- All formworks encasing grouting zone must be sturdily constructed and to allow for sufficient hydrostatic points.
- All edges and joints must be sealed to watertight.
- In pressure grouting, the installation of input / stop-valve must be firm and strategically positioned.

### MIXING

Place about 70-80% of premeasured clean water into a clean container with below mix ratio guide, gradually add REC GROUT 718 NS powder into it while mixing. Add the remaining water and mix continuously for 3-5 minutes to achieve homogeneous lump-free mixture.

Avoid entrapping air during mixing. For small patches, use an electrical hand-held drill mixer. For big patches, use drum type mechanical mixer.

#### Mix Ratio Guide:

- To obtain flowable consistency, mix one bag (25kg) of REC GROUT 718 NS with approximately 4.75 – 5.25 liters of clean water.
- To obtain pourable consistency, mix one bag (25kg) of REC GROUT 718 NS with approximately 4.25 – 4.50 liters of clean water.
- To obtain stiff consistency, mix one bag (25kg) of REC GROUT 718 NS with approximately 3.50 – 4.00 liters of clean water.

#### **APPLICATION**

- For gravity fed applications, place the REC GROUT 718 NS mortar from one side or corner in one continuous pour.
- When grouting large areas, pour from the middle through a pipe or funnel.
- For machine installations, fill the anchor bolt pockets, followed by the underside of the machine.
- For pressure grouting, hand-grout pump or electrical pump can be utilized, depending on the volume and size of the grouting area. Once the pressure has been reached, close the stop-valve and release the pressure gauge.

#### **CURING**

- Allow 7 days for curing, before striking off the formworks.
- Protect newly applied mortar from rain.
- Open areas must be protected against evaporation by using polyethylene sheet or damp burlap.

#### **CLEANING**

Clean tools with water immediately after use. Cured materials can only be removed mechanically.

#### **PACKAGING**

REC GROUT 718 NS is packed in 25kg bags.

#### **STORAGE & SHELF LIFE**

REC GROUT 718 NS in its original packing, when stored in a sheltered dry place that is free from excessive moisture, shall have a shelf life of 6 months from its date of manufacture.

#### **HEALTH & SAFETY**

REC GROUT 718 NS is non-hazardous. However it is recommended that appropriate safety equipment to be worn by workers when handling this product, including dust masks, rubber gloves, full eye protection and boots where necessary. In case of contact with eyes, wash with plenty of water. If irritation persists, seek immediate medical attention.

## TECHNICAL PROPERTIES

Consistency	Flowable	Pourable	Stiff
Water Powder Ratio	0.19 – 0.21	0.17 – 0.18	0.14 – 0.16
Compressive Strength 1 day 7 days 28 days	≥ 25 N/mm <sup>2</sup> ≥ 45 N/mm <sup>2</sup> ≥ 60 N/mm <sup>2</sup>	≥ 30 N/mm <sup>2</sup> ≥ 50 N/mm <sup>2</sup> ≥ 65 N/mm <sup>2</sup>	
Tensile Strength 7 days 28 days	~ 7.0 N/mm <sup>2</sup> ~ 7.5 N/mm <sup>2</sup>	~ 7.5 N/mm <sup>2</sup> ~ 8.0 N/mm <sup>2</sup>	
Flow consistency (ASTM C939) (Flow Cone)	20 – 45secs ~ 300mm	> 60secs ~250mm	
Density	Approximately 2000 kg/m <sup>3</sup> (depending on consistency)		
Expansion (ASTM C940)	< 0.4% at 3 days and 28 days		
Shrinkage (ASTM C940)	0% at 28 days		
Setting Time (ASTM C953)	Initial ≥ 1hour; Final ≤ 10hours		
Pot Life	Approximately 20 minutes		

Appearance	Grey powder
Binder	Portland cement
Fille	Graded silica sands
Auxiliaries	Additives to enhance flowability, extended working time and reduce shrinkage
Coverage	Flowable: Approx. 0.014m <sup>3</sup> mortar per bag; or Approx. 72 bags per 1 m <sup>3</sup> mortar Pourable: Approx. 0.013m <sup>3</sup> mortar per bag; or Approx. 76 bags per 1m <sup>3</sup> mortar
Packaging	25 kg bag
Shelf Life	6 months from date of manufacture

Note: The values given are average figures achieved in laboratories conditions at 20°C

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