

# ShaliGrout® 50

Single Component Free Flow Non-shrink High Strength Grout



## Description

**ShaliGrout® 50** is free flow non-shrink grout specially designed for use where high strength and high fluidity is required. It is formulated as a natural aggregate system with a shrinkage compensating binder and is highly flowable without sacrificing strength or performance capabilities. **ShaliGrout® 50** is formulated to provide consistency and exacting performance in critical grouting operations. This also can be used as a repair product in various types of application in projects.

**ShaliGrout® 50** complies with ASTM C 1107.

## Characteristics

Compressive Strength 50 mm cube, kg / cm <sup>2</sup> <ul style="list-style-type: none"><li>• 1 day</li><li>• 3 days</li><li>• 7 days</li><li>• 28 days</li></ul>		Setting Time, 30°C, hr. <ul style="list-style-type: none"><li>• Initial</li><li>• Final</li></ul>	4 7
	100	Flow Rate, cm.	10 - 15
	250	Yield for 30 kg bag, m <sup>3</sup>	0.015
	350		
	500		

**Note: The above results were achieved under Laboratory conditions. Tested at fluid consistency of 4.5 L of water per 30 kg Grout.**

## Application

- Heavy duty grouting of machinery and equipment.
- Bridge Seats
- Structural columns
- Bending plates
- Crane rails
- Anchorages

## Advantages

- Highly fluid and quickly place able for easy field use.
- High strength for maximum load bearing.
- Non-Shrink with minimum positive expansion for high tolerance performance.
- Non-bleeding and non-segregating at a fluid consistency.
- Does not contain any chlorides or additives which may contribute to corrosion of base structure.
- Total shrinkage compensation, which provides a maximum bearing surface for the greatest overall support.
- Rapid strength gain to minimize turnaround time for equipment installation.
- Excellent working time at high ambient temperatures.

## Application Methodology

- Ensure that concrete surface is clean, sound, rough and is free from any standing water, oil, dirt, debris, paint, unsound concrete or other contaminants.
- Ensure that surface temperature & ambient temperature is not < 5°C and > 40°C.
- As a precautionary measure, remove all residue with a vacuum cleaner or pressure washing.
- Pre-soak the pit to be grouted with water to ensure a saturated surface during the grouting process.
- Mix 30 kg **ShaliGrout® 50** with 4.5 L of water. Where grouting is to be done for deeper thickness (Bolt pocket grouting), add about 10-11 kg of gravel per 30 kg of **ShaliGrout® 50**.

- Use requisite quantity of water to achieve desired flow level of **ShaliGrout® 50**. Do not add excess water as this may lead to bleeding & segregation. Do not add sand / cement to **ShaliGrout® 50** as this may change its properties.
- Pour grout immediately after mixing from the one side into a watertight shuttering around the machine basement / structure. Ensure that the air dispensed by pouring grout escapes and air entrapment is avoided. The grouting should be continuous and maintain sufficient pressure head to keep grout flowing. To prevent grouts from leaking out, use wooden or MS shuttering material with a polythene sheets or coating of ShaliSlip.
- When grouting base-plate, pour grout into the head box and allow to flow under the plate. Straps pre-placed under the plate will aid in working the grout across. Grout should be placed at minimum of 25 mm thick and a maximum of 150 mm per lift when placed in a large mass.
- Bring all **ShaliGrout® 50** materials as well as foundation and base-plate as close to room Temperature as possible. Cold temperatures will significantly reduce flow characteristics and will enhance difficulty of base-plate grouting. Higher temperatures will increase initial flow but cut down on working time.
- Ensure proper curing of **ShaliGrout® 50** to achieve optimal durability / performance of grout. Wet cure the grout until forms are stripped. Then cure the grout with high solid curing compounds such as ShaliCure Acrylate. Improper curing schedule may lead to crack formation.

### Cleaning & Maintenance

Tools and mixer may be cleaned with water immediately

### Health & Safety

- Use mask, nose cover and hand gloves during application.
- Clean hands with soap water after application.
- Avoid contact with skin / eyes. In case of unlikely contact with eyes, rinse immediately with plenty of clean water, then cleanse with soap and lukewarm water and seek medical advice. Do not use solvent to clean the contacted area.
- Prevent swallowing. In case of unlikely swallowing, seek medical attention immediately. Do not induce vomiting.

### Packing

Available in 30 kg bag.

### Storage

Store in cool dry place, under the shed, away from heat.

### Shelf Life

9 months in original unopened sealed conditions.



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