

ShaliGrout 50



Single Component Free Flow Non-shrink High Strength / Fluidity Grout

STP Limited

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 flow-able 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.

Characteristics

Compressive Strength 50 mm cube, kg/Cm ²	• 1 day • 3 days • 7 days • 28 days	100	Setting Time, 30 °C, hr	4 7
			• Initial	
		250	• Final	
		350	Flow Rate, Cms	10 - 15
		500	Yield for 25 kg bag, M ³	0.0125

Note : The above results were achieved under Laboratory conditions. Tested at fluid consistency of 3.75 L of water per 25 kg Grout.

Application

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

Advantages

- Highly fluid and extremely placeable 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 turn around time for equipment regroups.
- 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 25 kg **ShaliGrout 50** with 3.88 L of water. Where grouting is to be done for deeper thickness (Bolt pocket grouting), add about 9-10 kg of pea gravel per 25 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.

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 25 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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