ShaliGrout® HS

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

STP Limited

Description

ShaliGrout® HS (formerly called ShaliGrout 73) is a non-shrink high flow 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. This also can be used as a repair product in various types of application in the project.

Approvals / Standards

ASTM C 1107

Technical Characteristics

Compressive Strength, kg / cm^2 • 1 day • 3 days • 7 days • 28 days	 260 510 620 710	Time for expansion (after mixing), minutes • Start • Finish	 15 100
Flow Table Flow Rate, cm	15 - 20	Yield for 30 kg bag, m^3	0.015
Flexural Strength (28 days), N / mm^2 (ASTM 348)	12 - 13	Tensile Strength, 28 days, N / mm^2 (ASTM C 307)	4 - 5
Fresh weight density, kg / m^3 (ASTM C 138)	2300 - 2400	Water content per 30 kg bag, Ltr. • Flowable consistency • Pourable consistency	 4.95 4.80
Linear coefficient of thermal expansion, / °C, (ASTM C 531)	1.52 x 10^{-6}	Pull out Strength, 28 days (IS 2770-1-1967)	19 - 20

Note: The above test results were achieved under Laboratory conditions. Tested at fluid consistency of 4.8 litres of water per 30 kg Grout.

Field of Application

- Heavy duty grouting of machinery and equipment
- Ball Mills in cement plants
- Petrochemical & fertiliser units
- Bridge plates
- Bearing plates & Textile machineries and anchorages
- DG sets

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.
- Rapid strength gain to minimise turnaround time for equipment regrouts.
- 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 concrete with water to ensure a saturated surface during the grouting process.
- Mix 30 kg **ShaliGrout® HS** with 4.95 liters water for flowable consistency. Where grouting is to be done for deeper thickness (Bolt pocket grouting), add about 11 - 12 kg of pea gravel per 30 kg of **ShaliGrout® HS**.
- Use requisite quantity of water to achieve desired flow level of **ShaliGrout® HS.** Do not add excess water as this may lead to bleeding & segregation. Do not add sand / cement to **ShaliGrout® HS** 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® HS** 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 shall cut down on working time.
- Ensure proper curing of **ShaliGrout® HS** to achieve optimal durability / performance of grout. Wet cure the grout until forms are stripped. Then cure the grout with high solid curing compounds from STP **ShaliCure** range.

Cleaning & Maintenance

Tools and mixer may be cleaned with water or STP Thinner. Hardened materials have to be removed mechanically.

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

6 months in original unopened sealed conditions.



STP Limited
Enhancing Structures' Life

Product Range
- Waterproofing and Insulation
- Road Surfacing
- Sealants and Additives
- Pipeline Coating
- Protective / Anti-Corrosive Coating
- Epoxy Flooring
- Grouts / Admixtures
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