

ShaliGrout® 90

Ready To Use Non-Shrink High Strength Cementitious Grout



Description

ShaliGrout® 90 is a single component, non-shrink, high flow grout specially designed for use where high strength and high fluidity is required.

ShaliGrout® 90 is ready to use dry powder with addition of controlled amount of clean water for grouting of gap thickness up to 100 mm.

ShaliGrout® 90 imparts controlled expansion in the plastic stage with minimum use of water. It complies to ASTM C 1107.

Characteristics

Compressive Strength 70 mm cube kg / cm ² <ul style="list-style-type: none">• 1 day• 3 days• 7 days• 28 days	350 550 725 810	Setting Time, 30°C, Hrs. <ul style="list-style-type: none">• Initial• Final	4 6
		Water required per 30 kg bag, ltr. <ul style="list-style-type: none">• Flowable consistency• Pourable consistency	5.0 4.8
Flow Table Flow Rate, cms (BS Cone)	21 - 25	Yield for 30 kg bag, m ³	0.015
Wet density, kg / m ²	2000	Layer thickness, mm	5 - 100
Grading, mm down	2	Bonding strength, N / mm ²	> 1.5
Expansion, 3 days & 28 days, %	< 0.5	Shrinkage, 28 days, %	0
Consumption, kg / m ³	2000	Tensile strength, MPa	> 1.0
Mixing time, minutes, minimum	3	Flexural strength, N / mm ² , 28 days	9
Ambient temperature, °C	5 - 40	Substrate temperature, °C	5 - 40

Note: The above test results were achieved under laboratory conditions. Tested at fluid consistency of 4.8 L of water per 30 kg bag.

Application

- Heavy duty grouting to withstand static / dynamic load of machinery and equipment, like,
- Base plates for turbines / bridge bearing plates / compressors / boilers / feed pumps / DG set base foundation.
 - in textile, cement plant, chemical, petrochemical, fertilizer and power plants.
 - As micro-concrete for repair of large surface defects of bridge deck and concrete road.
 - Grouting of precast components and semi precast construction joints.
 - Fixing of masts, anchor bonds fence posts and pipe sleeves.

Advantages

- Easy to use and highly fluid.
- Non-corrosive / Non-flammable / Non-toxic / Non-staining.
- 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.
- No chlorides or additives which may contribute to corrosion of base structure.
- Rapid strength gain.
- Excellent working time at high ambient temperatures.

Application Methodology

➤ Surface Preparation

- 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.

➤ Material Preparation

- Mix **ShaliGrout® 90** with 5 L water for flow-able consistency. Where grouting is to be done for deeper thickness (Bolt pocket grouting), add about 10 - 11 kg of small gravel per 30 kg of **ShaliGrout® 90**.
- Do not add excess water as this may lead to bleeding & segregation. Do not add sand / cement to **ShaliGrout® 90** as this may change its properties.

➤ Application of Material

- 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. This will avoid crack formation on grout face.
- Bring all **ShaliGrout® 90** 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® 90** 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. Improper curing schedule may lead to crack formation.

Cleaning & Maintenance

Tools and mixer may be cleaned with water before **ShaliGrout® 90** has hardened, otherwise mechanical cleaning will be required.

Health & Safety

- Avoid contact with skin / eyes and avoid swallowing.
- Ensure adequate ventilation and avoid inhalation of vapour.
- Wear suitable protective clothing, gloves and eye protection.
- In case of skin contact, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of eye contact, wash with plenty of clean water and seek medical advice.
- If swallowed, seek medical attention immediately. Do not induce vomiting.

Packing

Available in 30 kg moisture resistant bags.

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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Enhancing Structures' Life

Product Range

- Waterproofing and Insulation
- Sealants and Additives
- Protective / Anti-Corrosive Coating
- Grouts / Admixtures
- Other Construction Chemicals
- Road Surfacing
- Pipeline Coating
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