

ChemGrout HSG

Cementitious, Non-Shrink High Strength Grout

Description:- ChemGrout HSG is a very high strength, Non-shrink cementitious grout which is specially formulated for pure grouting, where it is essential to withstand static and dynamic loads. The very high initial & ultimate strengths make it suitable for applications below load bearing areas, base plates of turbines, compressors, boiler feed pumps etc. It can also be used for anchoring a wide range of fixings, include masts, anchor bolts and fence posts.

Characteristic Parameters:-

It confirms BS: 1881-1983, BS: 4551-1998

Test Parameters	Specification
Appearance	Free flowing cementitious powder
Compressive strength, Kg/cm ² (70 mm cube) <ul style="list-style-type: none">• 1 Day• 3 Day• 7 Day• 28 Day	300 500 600 750
Flow in cm	20 -25
Water content per 25 kg bag, Ltr. <ul style="list-style-type: none">• Flow able consistency• Pourable consistency	4.125 4.000
Setting Time, 27°C, Hrs. <ul style="list-style-type: none">• Initial• Final	4-6 6-8

Note: - Above test results were found under Laboratory conditions. Tested at fluid consistency of 3.75 L of water per 25 kg Grout.

Features/Advantages

- ❖ Good pour ability & Flow ability.
- ❖ Provides highest contact area.
- ❖ High strength for maximum load bearing.
- ❖ Doesn't corrode reinforcement.
- ❖ Excellent bonding.

Applications

- ❖ Heavy duty machine foundations.
- ❖ Heavy duty grouting of machinery and equipment.
- ❖ Base plated & bolt-pockets of turbo generators.
- ❖ Column precast contracts.
- ❖ Petro chemical & fertilizer units.
- ❖ Diesel generator sets.
- ❖ Cement, textile & paper mill machinery.

Application methodology

Preparation Foundation surface

- ❖ The substrate surface must be free from dust, oil, grease or any loosely adherent material.
- ❖ If the concrete surface is defective or has laitance, it must be cut back to a sound base.
- ❖ Bolt holes and fixing pockets must be blown clean of any dirt or debris.

Pre-soaking

- ❖ Several hours prior to placing, the concrete substrates should be saturated with fresh water.
- ❖ Immediately before grouting takes place any free water should be removed with particular care being taken to blow out all bolt holes and pockets.

Base plate

- ❖ It is essential that this is clean and free from dust, oil, grease or scale.

- ❖ Air pressure relief holes should be provided to allow venting of any isolated high spots.

Levelling shims

- ❖ If these are to be removed after the grout has hardened, they should be treated with a thin layer of grease.

Formwork

- ❖ The formwork should be constructed to be leak-proof. This can be achieved by using foam rubber strip or mastic sealant beneath the constructed formwork and between joints.
- ❖ In some cases it is practical to use a sacrificial semi-dry sand and cement formwork. The formwork should include outlets for pre-soaking.

Mixing and placing

Mixing

For best results mix powder with a mechanically heavy duty slow speed (400-500 rpm) drill fitted with a paddle type grout mixer.

Consistency of grout mix

The quantity of clean water required to be added to a 25 kg bag to achieve the desired

Consistency is given below:

Pourable: 4.125 liters

Flow able: 4.000 liters

- ❖ The selected water content should be accurately measured into the mixer. Then add Slowly 25 kg bag of the Offshore ChemGrout HSG and continuous mixing should take place for 5 minutes.
- ❖ Ensure that the grout has a smooth even consistency.

Placing

After achieved the desired consistency Place or poured the mix grout into the prepared Foundation.

Cleaning of Tools: Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be mechanically removed.

Health & Safety

- ❖ Before handling product wear suitable protective clothing, gloves, Nose mask, helmet and Goggles.
- ❖ Avoid contact with skin /eyes, and avoid swallowing.
- ❖ Inhalation of dust during mixing should be avoided.
- ❖ If material contacted to skin rinse with plenty of clean water, then cleanse with soap and water.
- ❖ In case of eye contact, wash with plenty of clean water and seek medical advice.
- ❖ If swallowed, seek medical attention immediately.

Packing: - 25 kg. Moisture proof bag.

Shelf-Life and Storage Condition:- Shelf life is 12 months if store in a dry and cool place with unopened sealed moisture proof bags. If stored in high temperature and high humidity place, the shelf life may be reduced.

Our Other Products Ranges Are:-

- Concrete Admixtures
- Sealants & Primer
- Industrial Floorings
- Concrete Repair Products
- Mould Release Agents
- Adhesive for Tiles, Marbles and Stones
- Concrete Curing Compounds
- Waterproofing Chemicals
- Industrial Grouts
- Concrete Hardeners
- Concrete Bonding Agents
- Joint Filler Grouts for Tiles, Marbles and Stones

Offshore

Important Note:- Offshore Chemox products are confirming standard manufacturing specification and procedure. Offshore Chemox products are given in good faith based on Offshore Chemox current knowledge and experience of the products when properly stored, handled and applied under normal conditions. Offshore Chemox product are confident against defective materials and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Offshore Chemox endeavors to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.

OFFSHORE CHEMOX

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