



VITCON GROUT 2053 NSC

General purpose, free flow, high strength, non-shrink, cementitious grout

DESCRIPTION

VITCON GROUT 2053 NSC is a ready to use dry cementitious powder admixed with polymer additives. On addition a controlled amount of free water, VITCON GROUT 2053 NSC produces a free flowing, non-shrink grout for gap thicknesses up to 100mm. The free flow grout exhibit a controlled expansion in the plastic state to counter balance shrinkage effect. Moreover, this also imparts a high strength at early and ultimate stages.

ADVANTAGES

- ✓ Ready to use product without any hassle.
- ✓ Controlled expansion compensates plastic shrinkage and settlement.
- ✓ Ensures high early and ultimate strength.
- ✓ Chlorides free – no corrosion effect.
- ✓ Reduces permeability to ensure the durability of the hardened grout.
- ✓ Free flow- uniform level of contact with load bearing area.

USAGE

VITCON GROUT 2053 NSC is normally used for general purpose grouting where a W/P ratio of 0.15 to 0.16 is recommended. For special purposes, the W/P can be varied up to 0.14 and 0.18 respectively. But it is always recommended to make trial mix before making actual application at site to optimize the consumption of water.



APPLICATIONS

Surface Preparation

The substrate – foundation or base plate - must be free from oil, grease or any loosely adherent material. For any defects, it must be cut back to a sound base without any holes. Bolt holes and fixing pockets must be blown clean of any dirt or debris.

For base plates, air pressure relief holes should be provided to allow venting of any isolated high spots.

Pre-soaking

The area to be grouted must be cleaned and flooded with enough water. The surplus water should be removed immediately before grouting.

Formwork

The formwork must be watertight by using foam rubber strip or mastic sealant beneath the constructed formwork and between joints. But this should ensure to include outlets for pre-soaking.

Mixing

The powder grout should be mixed with requisite water with a mechanical grout mixer, a slow speed drill fitted with a high shear mixer is suitable up to 50 kg quantity. For larger quantities, a high shear vane mixer is recommended.

First, premeasured water should be added into the mixer. Then, powder should be slowly added with a continuous mixing. The mixing should take place for a minimum 5 minutes to ensure a smooth even consistency.



Placing

The mixed grout should be placed within 15 to 20 minutes of mixing to get an effective expansion.

VITCON GROUT 2053 NSC is recommended for a single pour thickness of maximum 100 mm when used as an underplate grout. For higher thickness, VITCON GROUT 2053 NSC should be mixed with graded aggregates to reduce generation of heat. Typically 10 mm aggregate at a ratio of 50-100% by weight of VITCON GROUT 2053 NSC can be added.

For grouting base plates, bolt pockets must be grouted prior to grouting between the substrate and the base plate.

Pouring of grout should be continuous without any gap to reduce cold joints.

Curing

After the completion of pouring of liquid grout, all the exposed areas should be thoroughly cured either with wet hessian cloth or VITCON 2021 WB, a concrete curing compound.

Cleaning

All the tools and equipments used for grouting with VITCON GROUT 2053 NSC should be cleaned from with fresh water immediately after use.

PACKING

VITCON GROUT 2053 NSC is available in 25 kg plastic or paper bags.

SAFETY

VITCON GROUT 2053 NSC is should not come into contact with skin and eyes. Avoid inhalation of dust during mixing. It is advised for any contact with skin, wash with plenty of water.