VEXCOLT

VX GroutMaster 60

VX GroutMaster 60 is a special mortar material (cement + sand). It is non-shrinkage, easy to flow, and has extremely high compressive strength. Designed to fill permanent voids, such as beneath critical machine base plates, holes in concrete structures, beneath beam support plates on bridges, precast concrete panels, gaps beneath steel column feet, pre-stressed concrete beams, anchor bolts, and for repairing deteriorated vertical concrete surfaces such as columns or walls.

ADVANTAGE

- No shrinkage caused by cement and water, thus preventing cracking.
- No bleeding, ensuring water retention within the mix.
- No segregation, preventing sand from settling at the bottom of the mix.
- Easy flowability allowing compaction without the need for vibrators.
- Extremely high compressive strength serving as a high safety factor.
- Dense and relatively waterproof, guaranteeing the attainment of permanent high strength.

PRODUCT SPECIFICATION

Type	High strength grouting non shrink
Form	Powder
Colour	Grey/natural
Application thickness	10 mm - 100 mm
Water consumption **stiff** **flowing**	 3.2 - 3.4 lt / zak 4.4 - 4.6 lt / zak
Drying Time (30°C) **Initial setting** **Full Cure**	 6 - 8 Hours 28 Days

PACKAGING

VX GroutMaster 60 is packaged in 25 kg plastic bags with separate inner bags.

SHELF LIFE & STORAGE

VX GroutMaster 60 has a shelf life of at least 12 months if stored undamaged in a cool, dry place.

HEALTH & SAFETY

VX GroutMaster 60 has a relatively high alkaline content, so the use of gloves is recommended during handling

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TECHNICAL DATA

Density **Dry** **Wet**	1.4 (± 0.1) gr/ml 2.0 (± 0.1) gr/ml
Bond strength to concrete (ASTM D 4541)	~ 1.5 N/mm^2
Compressive strength (ASTM C-109) **1 day** **3 days** **7 days** **28 days**	 ~ 250 kg/cm^2 ~ 350 kg/cm^2 ~ 450 kg/cm^2 ~ 600 kg/cm^2
Expansion (ASTM C940-98a)	Controlled positive expansion
Water permeability (DIN 1048)	≤ 3 mm

Note: The data above is based on laboratory testing, where the temperature is maintained at a constant 24±2 °C. Field results may vary due to the use of water influenced by local weather conditions and other factors that may not allow for perfect test sample preparation.

APPLICATION

I. SURFACE PREPARATION

- The base must be clean and free from any type of dirt, especially oil, grease, or curing compound.
- It is highly recommended to roughen the base surface by randomly chiseling with a hammer and chisel.
- The base should be moistened with water, and the use of a bonding agent is recommended.
- Excess water should be removed before mixing begins using an air compressor or vacuum pump.

II. FORMWORK

- Formwork must be securely and tightly assembled as VX GroutMaster 60 is flowable. Use rubber sealant or cement paste at the bottom of the formwork and also at the joints.
- Formwork must be made of Plywood Film, Steel Plate to avoid water ratio on powder grouting is not absorb to the Formwork. In some cases, temporary formwork made of mortar (cement + sand) can be used, which are then removed after VX GroutMaster 60 begins to harden. Mortar is made from a mixture of simple cement and slightly dry sand, easily dismantled.
- If height adjustment shims need to be removed, tie the shims with wire and coat them with a release agent.

III.MIXING

- VX GroutMaster 60 should be mixed in one container using an electric motor mixer with low speed equipped with spiral stirrers. A large-capacity concrete mixer can be used for large-volume mixing if necessary.
- Add approximately 3⁄4 of the required water to the container first. The amount of water required theoretically depends on the desired consistency and the temperature in the field.
- Slowly add VX GroutMaster 60 to the container while continuing to mix until all the ingredients are evenly mixed. Make sure no lumps remain, especially at the bottom of the container.
- Slowly add the remaining water until the desired consistency is achieved.
- Never add cement or sand.

IV.POURING/APPLICATION

- VX GroutMaster 60 can be placed by gravity (pouring) or injection methods (using pressure).
- Placement should be continuous without interruption until completed and in one direction only. Avoid pouring too high, which may result in trapping a lot of air.
- Ensure an adequate amount of mixer to mix and prepare the material without interruption.
- The use of tamping rods or auxiliary wires is possible for complex applications.
- Ensure that the entire area is well filled by leaving a height above the expected peak point (about 2 cm) and maintain this height until the grout begins to thicken, then remove the excess and level the edges. Never use vibrators.
- If VX GroutMaster 60 needs to be pumped, use a diaphragm pump or a standard concrete mixer for large volumes.
- Wet Curing : Keeping the grout moist by covering it with damp cloths, plastic sheets, or continuously spraying it with water. or Using chemical curing agents that are applied to the surface of the grout to retain moisture.

V. TIDYING UP

- Formwork should be opened and removed once the grout begins to harden.
- Edges should be shaped with a special cement spoon and smoothed before the grouting hardens.