

DESCRIPTION

GS 109 is a one component rapid concrete repair mortar which requires only the addition of water to produce durable, a very rapid strength-gaining material for permanent repair of concrete. It is a special blend of Portland cement, graded silica sands and a proprietary admixture.

AREA OF APPLICATION

GS 109 is designed for the durable repair of poured-in-place concrete and pre cast concrete substrates which requires a very rapid strength gain and high strength characteristics where thickness of less than ¾ inch (1.94 cm) are required.

- Basement Floors
- Factory / Warehouse Floors
- Hangar Floors
- Highways

GS 109 is suitable where high impact resistance, compressive strength, good abrasion resistance; durable and early strength gaining repairs are required.

PACKAGING

25 Kg per Pail

APPLICATION DATA

- **GS 109** is a water sensitive material, maintain recommended water volume criteria.
- Do not apply less than 1 inch / 2.54 cm in depth.
- Do not add additional water to **GS 109** once mixed to extend workability.

MIXING RATIO

3.25 Litre of water for the 25 Kg pail of **GS 109**. Accurate measurement of water is very essential.

SURFACE PREPARATION

When using a deteriorated area of concrete chip or saw cut the area to a depth sufficient to remove all deleterious concrete. It is recommended that edges be squared and depth be a minimum of ¼ " / 0.64 cm. Clean and remove all oil, grease, dirt and loose debris from the area to be repaired.

MIXING

- Use a high intensity mixer with atleast twice the volume of the amount to be mixed. Place the mixer close to the area to be repaired. Ensure that the mixer is clean of any foreign particle including water.
- Measure the total water required for mixing for each batch. Use clean water.
- Fill the mixer with half of the quantity of **GS 109** to be mixed and then add all the water. Mix for 1-2 minutes and then add the second half of **GS 109** material and mix for another 3-4 minutes until a uniform homogeneous and smooth mixture is achieved.

APPLICATION

Place the mixed mortar in the area to be patched. Place from one side to the other and work the material into side and bottom of the repaired area to aid in satisfactory bonding.

Screed and level to maintain elevation of existing concrete. Finish by trowel to seal edges, surface and ¾ inch / 1.90 cm minimum keyed saw-cuts.

Do not re-temper the mix by adding water.

CLEANING

Clean all mixing and application equipments with water immediately after use. Remove all splatter of spills with water before material sets.

STORAGE

GS 109 should be stored in original undamaged packs in cool and dry storage place. The shelf life of **GS 109** is 1 (One) year. The material should not be allowed to freeze or be in open sunlight.

SAFETY INSTRUCTIONS

GS 109 is non-flammable and non-toxic in nature. Avoid contact with eyes and skin as it may cause irritation due to its alkaline nature. Splashes of **GS 109** should be washed off immediately with clean water. Wear necessary gloves, dust masks and safety goggles.