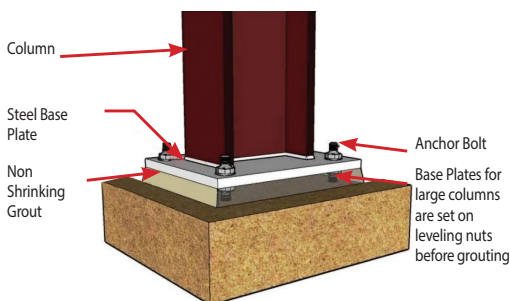


TIGOCRETE IG 225

NON-SHRINK PRESSURE GROUT (NSPG)

Self-expansive plasticizing Admixture & Grouting Kit.

Specially recommended for Cementitious Grouting work.



This product is composed of plasticizers, expansion additives, polymers & defoamers. It is used for administering cementitious injection grouts for pressure / gravity injection into concrete structures, for producing cementitious grouts, which are suitable for bed grouting, duct grouting, filling etc. because it provides plasticizing action which improves flow, expansion additive provides shrinkage compensation after curing & high compressive strength.

Specification: TIGOCRETE IG 225 is manufactured as per BIS standards.

Areas of Application:

- ✓ For injection grouting in-RCC slabs, Sunken slabs
- ✓ RCC walls of water tanks, swimming pools
- ✓ Basements for waterproofing purpose
- ✓ Concrete Duct grouting
- ✓ Rock and soil anchoring
- ✓ Pre-placed aggregates and tunnel lining
- ✓ Crack filling in structural enforcements
- ✓ For structural strengthening in repairs



Features & Benefits:

Shrinkage – Produces a shrinkage compensating cement slurry.

Permeability – Delivers reduced water-cement ratio of cementitious grouts & the mix has reduced permeability to water.

Flow ability – Provides good flowable grout mix, can be easily injected by gravity or with the help of pressurized injection pumps.

Durability – Increases the durability of repaired structures.

Corrosion – Chloride and iron free, hence no chance of corrosion.

Setting time – Does not affect the setting time of cement.

Strength – Does not affect the strength of cement, in fact increases the same.

Method of Application: CEMENTITIOUS INJECTION GROUTING.

Surface Preparation: The areas that requires injection grouting should be prepared thoroughly and locations of grout must be finalized. Drill hole of required size into the structure and fix grouting nozzle. Allow nozzle to set for 24 hours.

Mixing: Take the appropriate amount of water and then add cement and mix for 3-5 minutes with a drill mixer (for small jobs) or a paddle type mortar mixer (for large jobs) at 150 – 200 rpm. Add required quantity of TIGOCRETE IG 225 and mix for another 3-5 minutes until a consistent mix is achieved.



TIGOCRETE IG 225

NON-SHRINK PRESSURE GROUT (NSPG)



Application: Carry out injection grouting either by gravity or with grouting pump using the mixed material.

Cementitious Bed Grouting ~ Surface Preparation:

The areas that requires grouting should be prepared thoroughly, Remove dirt, dust, loos particles & coating. Make the surface SSD condition for at least 24 hrs. Remove excess water.

Mixing: Mix 1 bag [50 Kg] OPC – 53 grade cement with 100 Kg of clean & dry fine sand [0 – 2mm] in a pan / concrete mixer. Add **TIGOCRETE IG 225** & mix for 2 minutes. Add water, 20 – 25 Ltrs [as per w/p ratio – 0.2 to 0.25], under mixing & mix for 3-5 minutes to get homogeneous flowing mortar.

Application: Pour the mixed grout over prepared SSD surface, and allow it to cure for 24 hrs before curing with wet hessiancloth.

Precautions & Limitations: ● Number of holes and diameter to be decided at site ● Grouting pressure should be adjusted at site depending upon the nature of problem and thickness of structural member ● Properly seal the nozzles, with suitable adhesive / sealant / polymer modified mortar ● Do not dilute the injection grout with more water, it will reduce the strength.

Technical Information:

Colour: Brownish grey powder
Bulk density: 0.70 - 0.80 gm/cc
Shrinkage: NIL.

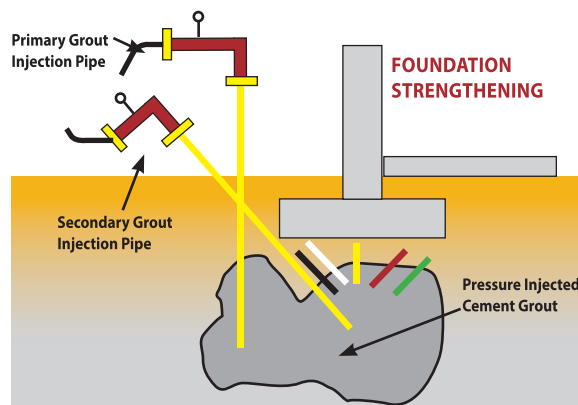
Dosage: 250 gms per 50 kg cement.

Packing: 13.5 kg.

Coverage: 50 kg cement and 250 Gms of **TIGOCRETE IG 225** will give 26-34 ltrs. yield, when used with a water : cement ratio of 0.30 to 0.45.

Shelf Life & Storage: Shelf life is 12 months from the date of manufacturing in unopened condition. Store in a cool & dry place.

Health & Safety Precautions: Use rubber hand gloves & safety goggles, while using **TIGOCRETE IG 225**. In case of contact with skin, wash with plenty of water. Keep out of reach of children.



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