



IGR B101

Expanding plasticising admixture for
cement, grout and concrete



DESCRIPTION

BYZON IGR B101 is composed of plasticizers, expansion additives, polymers & defoamer. It is used for producing 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.

FEATURS & BENEFITS

- › Shrinkage - Produce shrinkage compensating cement slurry.
- › Durability - Increases 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, infact increases.
- › Permeability - Reduces water-cement ratio of cementitious grouts, the mix has reduced permeability to water
- › Flowability - Provides good flowable grout mix so that mix could be easily placed or injected by gravity or pressurized injection pump.

AREA OF APPLICATION

- › RCC slabs, Sunken slabs.
- › RCC walls of water tanks, swimming pools.
- › Basements for waterproofing purpose.
- › Rock and soil anchoring.
- › Pre-placed aggregates and tunnel lining.
- › Crack filling in structural cracks.
- › For structural strengthening in repairs.

METHOD OF APPLICATION

- › It shall be ensured that areas to be grouted are clean, sound, and then pre wetted.
- › The unrestrained surface area of the grout must be kept to a minimum.
- › The selected water content should be accurately measured into the mixer.
- › The cement (and sand if required) shall be slowly added to IGR B101
- › Mixing shall be continued for 5 minutes, making sure that a smooth even consistency is obtained.
- › The grout shall be placed within 20 minutes of mixing to gain the full benefit of the expansion process.
- › Usual placing or pumping procedures shall be adopted ensuring a continuous operation.

TECHNICAL INFORMATION

PROPERTIES	RESULT
Colour	Grey powder
Time for expansion	20 -120 min
Shrinkage	Nil

CLEANING

- › Grouts mixed with IGR B101 should be removed from tools and equipment with clean water immediately after use. Remove cured material mechanically.

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.
- › Drastic overdosing of IGR B101 increases expansion and may cause frothing.

DOSAGE

- › 225 gms per 50 kg cement

PACK SIZE

- › 225 gm , 25 kg Bag

COVERAGE

- › 50 kg cement and 225 g IGR B101 will give 26-34 ltrs. Yield, when used with a water : cement ratio of 0.30 to 0.45

SELF LIFE

- › Shelf life is 06 months from the date of manufacturing in unopened condition.
Store in a cool & dry place.

SAFETY PRECAUTIONS

- › Keep out of reach of children.
- › Wear suitable protective clothing, gloves and eyes/face protection. After contact with skin, wash immediately with plenty of clean water.
- › In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice.

Note: All technical data stated in this product data sheet are based on laboratory tests. Actual measured data may vary according to trials and quality of material availability