

# MARKFLOW EP100

(PLASTICISING AND EXPANDING GROUT ADMIXTURE )



## DESCRIPTION

**MARKFLOW EP100** is a specially formulated powder additive which when mixed with cementitious system imparts shrinkage compensation and high flow ability, pump-ability to the mix. It produces controlled expansion and minimizes water demand. The plasticising agent allows the use of a reduced water cement ratio which increases strength and durability.

## FEATURES / ADVANTAGES

- Based on gaseous expansion system
- Reduces water demand, improves strength and pump-ability
- Most economical to use
- Compatible with wide range of chemical and mineral admixtures and rapid hardening Portland cement and most types of Portland cement
- Chloride Free
- Pre-packed grout overcomes potentials on site variations and it increase cohesion and improves fluidity.

## TYPICAL APPLICATIONS

- Cavity Filling
- Cable duct grouting
- Site batched repair
- Filling up the plumbing and electric chases
- Filling gaps between precast elements
- Repairing honeycombs by pressure grouting

## TYPICAL PROPERTIES

<b>Appearance</b>	: Grey Brown free flowing powder
<b>Chloride Ion</b>	: <0.1% As Per BS:5075
<b>Compressive Strength</b>	: Improves Strength and durability due to plasticising action
<b>Expansion</b>	: Up to 4%
<b>Time For Expansion</b>	: 15 Minutes - 2 Hours

## COMPATIBILITY

**MARKFLOW EP100** is compatible with most types of Portland cements including Rapid Hardening Portland cement. During the winter months when temperatures may fall to below 10°C, it is recommended that Rapid Hardening Portland cement should be used in grouts for filling the ducts of post-tensioned concrete members.

## DIRECTIONS FOR USE

**SURFACE PREPARATION:** All areas to be grouted must be clean and free of oil, grease, dirt and contaminants. Remove all loose materials. Where required, provide air-relief openings to avoid entrapment of air. All metal components to be in contact with grout must be free of rust, paint, or oils. All concrete to come in contact with the grout must be thoroughly saturated with clean water for a minimum of 12 hours before placement of grout. Remove excess water from holes and voids just before grout placement.

**MIXING:** First take approximately 80% of the water in the mixer and then the Portland cement, mix thoroughly until the cement has been completely dispersed. Then add MarkFlow EP100 and sand (if any is being used), and continue mixing a further 2 minutes or until complete dispersion of the MarkFlow EP100 is achieved. Add the required quantity of water from the remaining 20 % until the desired consistency is achieved. Too much dosage of EP100 will increase expansion and it may cause frothing

### **PLACING:**

**Cable Duct:** Grouts for ducts of post-tensioned concrete members should be passed through a 1.18mm BS sieve before reaching the pump, and the pump should be capable of giving a continuous flow of grout to the injection equipment.

**Bed grouting:** Placing should be without interruptions until completion. Place the mixed grout into the pouring hopper of the formwork within 15 minutes after mixing. Place from one side only.

**SPECIAL NOTE : MARKFLOW EP100 SHOULD NOT BE USED WITH HIGH ALUMINA CEMENT**

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## DOSAGE:

OPC	Sand	Water	MARKFLOW EP 100	Approx Yield
50 kg	-	20 - 22 Litre	225 g	36 Litre
50 kg	50 kg	22 - 24 Litre	225 g	56 Litre

**CURING:** On completion of the grouting operation, exposed areas should be thoroughly cured. This should be done by the use of MARKCURE WB curing membrane, continuous application of water and/or wet hessian

## STORAGE AND SHELF LIFE

It has a shelf life of 6 months. Pack should be kept in sealed condition to prevent any reduction in shelf life. Store the material below 35°C temperature. Freezing and exposure to heat & direct sunlight should be avoided.

## PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.

## PACKING

225 Grams Packs

## DISCLAIMER

The above information and details herein are based on the tests conducted & experience on application and usage. The user is advised to carry out the test and take trials to satisfy on the suitability of the products and meeting his requirement considering the prevailing conditions prior to apply/ using it on larger area. As the conditions under which the products are used or transported are beyond our control. We would not hold ourselves responsible on its consequential nonperformance.



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