



### KEY BENEFITS AND FEATURES

- Expansive property compensates plastic shrinkage in adequately designed cementitious grouts.
- Affords permanent expansion to grouts under restraint.
- Lack of iron content ensures that the placed grout does not stain or deteriorate due rusting.
- Gives the grout a free flowing consistency ensuring easy placement.
- High early strength is achieved without use of chlorides.
- Plastic settlement in cementitious grouts is eliminated.
- Reduced water/cement ratio lowers permeability in grouts thereby ensuring improved durability and increased life of the grout.

### USAGE

- Ideal admixture for Pressure Grouting of cementitious slurries.
- Suited as an admixture for bed grouting applications.
- Suited as an admixture for bed grouting applications.
- Can be effectively used for non-shrink infilling applications.
- Can be used as an admixture for joint filling mortars.
- Can be used as an additive in mortars for filling large cracks.

### DIRECTIONS FOR USE

**Surface Preparation :** All surfaces coming in contact with grout must be free of dirt, oil, grime, curing compounds and other contaminants. Concrete surface should be roughened to improve bond. Surface should be saturated with water for several hours prior to placement. Surface should be saturated surface dry (SSD) with no ponding immediately prior to placement of grout.

**Form Preparation:** All forms should be treated with -Tec<sup>®</sup> Release MA- Mould Release compound. Forms should be caulked at all seams which can be done with a trowelable consistency grout or a caulking compound .Un-restrained surface area of grout should be kept to the minimum.

**Mixing :** Small quantities may be mixed using a slow speed drill fitted with a mixing paddle. For larger quantities a drum mixer along with a holding tank would be ideal. The holding tank must be provided with a mild agitation system so that the uniformity of grout mix is maintained. Required water followed by correct dose of Tec<sup>®</sup> Swell should be discharged into the mixer first. Cement and sand (if required) should then be added to mix slowly and mixing should continue till a uniform free flowing mix of desired consistency is obtained.

**Placement :** The area to be grouted should be saturated surface dry. Grout can be placed by hand or pump. Hand placement should be by one continuous flow from one side of the area to be grouted. Venting in the base plate can avoid trapping of air. Vibrating of grouts should be avoided. Pumping grout in place is desirable on larger placements and should be done in an uninterrupted, continuous process. While pressure grouting the depth of nozzles should be decided ensuring that the pumped slurry enters the pores. Venting should be adequate for displacement of entrapped air. In all cases continuous operation is vital and mixing and placing should be over in 30 minutes to benefit from the expansion process.

**Curing:** Grout must be cured immediately after placement and striking it off. Tec<sup>®</sup> Cure WB is recommended as the curing compound. Proper curing minimizes surface dusting, checking and cracking. Leave forms in place as long as possible to take advantage of the forms for an excellent cure. Proper curing is extremely imperative.

### CLEANING:

Tools and equipments can be cleaned with water.



Certified:

ISO 9001 (QMS) & ISO  
14001 (EMS)



**PRECAUTIONS:**

Direct contact with skin or eyes should be avoided. Use of gloves, goggles and other protective gear is mandatory. In case of accidental eye contact thorough water washing is advised. This should be followed up with professional medical assistance. Tec<sup>R</sup> Swell is non-flammable.

Physical State	Powder
Chloride Content	Nil
Setting Time	No Significant alteration
<b>Compressive Strength</b>	
Mix Composition	Compressive Strength N/mm <sup>2</sup>
Cement   Tec Swell   Sand   Water   Yield	3 Days   7 Days   14 Days   28 Days
Kg.   Kg   kg   Ltr   Ltr.	
50   0.225   50   20-22   36	15   28   35   40
50   0.450   50   22-24   58	18   29   36   41
Expansion Time	20Mins to 2Hours
Linear Expansion : Un-restrained	4%
Restrained	1%
Compatibility	Compatible with all types of Portland cements. Should not be used with High Alumina Cement.
Storage	Store in cool, dry location
Shelf Life	Maximum of 1 year from date of manufacture in unopened package
Colour	Grey

**PACKAGING:**

Available in: 225 gm Pouches.

**OTHER PRODUCTS**

Techny manufactures lot more range of other products for construction and repair applications. They include admixtures for concrete, mortars, block making etc, waterproof and damp proof coating systems, Repair and rehabilitations products, Grouts and Anchors, Protective, Decorative and Corrosion prevention coatings, Epoxy Flooring systems, Industrial flooring systems and Tiling aids. For more details refer Separate Product brochures.

Every reasonable precaution is taken in the manufacture of the Techny products to ensure that they comply with high standards of quality. The recommendations and properties of the products are based upon what is believed to be the most reliable information available and are not intended as recommendations which infringe other patents. Although all Techny products are subject to rigid quality tests, no specific guarantee can be given, because results depend not only on quality but also on other factors beyond our control. We therefore welcome consultation in the event of doubt about application performance etc but do not accept any liability either directly or indirectly arising from the use of the products whether used as per its specifications or advice or otherwise. All transactions shall be subject to our terms of sale, delivery and payment. The leaflet supercedes the previous one and any new issue may take place without notice to supercede this edition as and when it becomes necessary.

TECHNICAL DATA SHEET  
REVISED - February, 2010

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