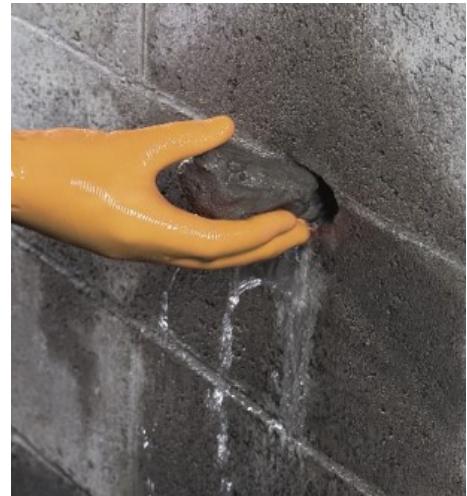


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## TECHNO-Plug

Fast setting, General Purpose Cementitious Repair Mortar and Permanent Hydraulic Water-stop



### DESCRIPTION

**TECHNO-Plug** is a one component, cementitious, very fast setting repair mortar and water plug based on special cement in a shrinkage compensating cement blend, fillers and additives to control the rheology and setting time. The material when mixed with water develops a very rapid set and gain in early compressive strength.

It is specifically designed for water stop and fast repair applications. The setting time is within 2 minutes to 5 minutes and the early strength gain can achieve up to 12 MPa within 3 hours. The mixed plugging mortar is easily placed by hand and is extremely stable under pressure. The placed plug is shrinkage compensated and will fill all gaps to prevent water ingress.

**TECHNO-Plug** has good chemical and mechanical resistance in addition to adhesive bond to concrete and other construction materials.

**TECHNO-Plug** is an excellent fast setting repair mortar instantly stops running water seepage in concrete or masonry structures and permanently plugs non-moving cracks, joints and voids.

### ADVANTAGES

- Non-shrink
- High early strength with long term strength gain.
- Resists alkalis and acids of PH as low as 4.
- Resists carbonation providing excellent protection for steel reinforcement.
- Formulated for short and long term efficiency.
- Excellent adhesion and waterproofing
- Continuous pores filling and sealing
- No free lime, all the hydration products are solids.
- Low heat of hydration, no thermal cracking.



## USES

- Designed to minimize downtime it is an excellent choice for fast repairs.
- Applied interior or exterior,
- repairs to curbs and gutters,
- precast concrete elements, tie-rod holes, concrete pipes, columns, beams,
- filling of non-moving joints and cracks or any general-purpose repair.
- Suitable as a water plug to effectively stop active water seepage.

## PACKAGE

**TECHNO-Plug** is supplied in 5 Kg packs.

Bigger packing available on request

## PROPERTIES

<b>Compressive Strength (MPa)</b>	22 Mpa / 7 days - 30 Mpa / 28 days "strength is increasing by time"
<b>Consistency</b>	Stiff mortar
<b>Consistency life</b>	2 to 5 Minutes
<b>Volume stability</b>	Non shrink
<b>Fresh Density</b>	2.2 g/cm <sup>3</sup>

## APPLICATION

- Mix approximately 4 parts by volume of **TECHNO-Plug** powder to approximately 1 part by volume of clean water.
- For damp cracks and fillets, mix should be semi-wet.
- For active water situations, mix should be of a stiff consistency.
- Mixing should be carried out using a gloved hand.
- Apply the **TECHNO-Plug** firmly into the crack or fillet using a suitable trowel.
- When working against water pressure work towards the point of highest pressure and finish using a gloved hand forcing the material against the pressure until set.
- Cut off excess material from the face within 3 minutes.
- Dampen fillet after application.
- In cold weather, the use of warm water will accelerate the setting time and in hot climate the use



of cold water will retard it.

## HEALTH AND SAFETY

**TECHNO-Plug** is alkaline when mixed with water and should not touch skin or eyes. Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves. If skin contact occurs, wash thoroughly with clean water. Should eye contact occur, rinse immediately with plenty of clean water and seek medical advice.

## STORAGE & SHELF LIFE

**TECHNO-Plug** should be stored in normal temperature and closed shaded dry area in undamaged original packing. Shelf lifetime 12 months from the production date.

