

## DESCRIPTION

Technocrete is a two part, high density Hydrophobic Polyurethane foam alternative to cementitious post foundations.

Derived from sustainably grown and recycled vegetable oils, formulated so it can be mixed without the need for mechanical plant and equipment.

## USES

Technocrete is designed for securing fence posts (concrete, timber, steel, or FRP) including Touchsafe™, gates and elevated troughing posts like Arcosystem, sign posts and marker boards.

## SPECIAL PROPERTIES

- Expands 20 x its package volume on mixing
- Forms a structurally supporting foundation within 10 minutes from pouring
- Contains no CFC, HCFC or HFC blowing agents
- Approximately 65% vegetable derived oils

## PREPARATION

Technocrete bags should be stored between 18-25 °C, two hours prior to installation.

## PACKAGING AND STORAGE

Each package is 1.6 kg, delivered in cardboard boxes containing 12 bags, approximately 19.5 kg. Store in a dry area between 10 – 35°C. Shelf life is a maximum of 1 year. Protect from freezing and do not use damaged or opened bags.



## INSTRUCTIONS

- Dig required hole
- Compact base with a tamper and remove or cover any water with soil, then insert post
- Put on FFP3 dust mask, latex gloves and glasses
- Tear open bags A and B
- Pour contents of bag A into B
- Reseal bag B, fold over seal twice, hold and shake for 10 seconds, vigorously
- Open bag B and pour contents evenly into base of hole
- Discard the bag into the base of the hole
- Maintain post position until initial cure

## PERFORMANCE

Initial set time approximately 10 minutes.  
Final set time 2 hours.

Technocrete is independently verified by chartered geotechnical and structural consulting engineers as a post foundation solution.

## HEALTH AND SAFETY

Please refer to Safety Data Sheet, for all PPE requirements.

## SALES AND DISTRIBUTION

Technocrete is stocked and sold exclusively by Scott Parnell Rail Ltd.

The distribution of Technocrete in the UK rail sector is managed exclusively by Complete Composite Systems Ltd.

## Technocrete Advantages

Technocrete is designed for securing fence posts (concrete, timber, steel, FRP), gates, elevated troughing posts (ARCOsystem), sign posts, marker boards.

- 1.6 kg of Technocrete = 60kg of postmix
- A 20 kg box of Technocrete = of 720kg postmix
- Technocrete does not require aggregates or water
- Low transport and placement costs
- Hydrophobic, repels water from soil surface reducing the risk of soil softening
- Expands to fill voids, creating clean and uniform contact with base and side of foundations
- Reduces risk of personal injury risk of manual handling
- Technocrete is a light weight, engineered alternative solution to postmix concrete
- Technocrete has been independently verified by chartered geotechnical and structural consulting engineers as a post foundation solution
- The finished density and shear strength of Technocrete is greater than the surrounding soil and therefore capable of resisting overturning loads
- During site testing Technocrete foundations under load performed equally or better than postmix concrete foundations
- Technocrete is not an alternative to reinforced concrete
- Design life of Technocrete is 30 years after which the product can be ground into concrete/fill material



Technocrete being used in the rail sector to secure FRP fencing