

# TECHNICAL INFORMATION SHEET

## KONGCRETE®



### Product Description

Kongcrete® is a revolutionary new way to install fence & sign posts. It is a high strength alternative to concrete that is lightweight, does not require water, sets in 3 minutes and is extremely easy to use.

Kongcrete® is a hydrophobic (insensitive to water) two-part composite backfill that expands to fill the peripheral void between a fence or sign post and the hole. Kongcrete® expands immediately after mixing and reaches 50% of full strength in approximately 3 minutes. The product completely sets in approximately 2 hours.

Kongcrete® can be used to install many different types of posts such as fence and sign posts, road and construction signs, as well as street lighting and telegraph poles.

### Features and Benefits

#### EASY

- EVERYTHING required for post installation is in the Kongcrete® kit.
- No water required.
- No more handling heavy bags of cement from hole to hole: due to its expanding nature, a 0.9kg kit of Kongcrete® is equivalent to approximately 30kg of cement.
- Kongcrete® significantly reduces labour requirements as no additional backfilling is required.

#### STRONG

- High strength expanding composite: Kongcrete® compressive strength is much higher than tamped soil.
- Adheres to wood, vinyl and metals posts better than concrete.
- Because it is poured in liquid format into the hole, Kongcrete® penetrates the soil better than concrete, providing a superior anchoring for the post.
- Due to its hydrophobic (insensitive to water) nature, the composite bond to a wood post reduces the risk of rotting at its most vulnerable location, 30 cm (1 ft) below the surface, by providing a barrier between the wood and the water/soil.

#### FAST

- Sets posts in as little as 3 minutes: eliminates the time spent forming, pouring and curing concrete.
- "Rain friendly": because of its fast setting nature, Kongcrete® is rain proof in a few minutes contrary to concrete.

### Packaging

Kongcrete® is available in different size kits. The three standard sizes are small, medium and large although other sizes are available if the quantity required meets our minimum order quantity (please contact our sales department for more information). Each kit contains Part A and Part B that are mixed on the job site for approximately 30 seconds before pouring the mixed material into the hole.

### Approximate Size/Yield

Small Kit - Fills void of approx. 6 litres

100mm x 100mm post in a 160mm diameter hole x 600mm deep

76mm diameter post in a 135mm diameter hole x 600mm deep

Medium Kit - Fills void of approx. 12 litres

100mm x 100mm post in a 200mm diameter hole x 600mm deep

76mm diameter post in a 175mm diameter hole x 600mm deep

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Large Kit - Fills void of approx. 20 litres

100mm x 100mm post in a 235mm diameter hole x 600mm deep

76mm diameter post in a 220mm diameter hole x 600mm deep

Extra Large Kit - Fills void of approx. 30 litres

100mm x 100mm post in a 235mm diameter hole x 900mm deep

76mm diameter post in a 220mm diameter hole x 900mm deep

Small & Medium Size Kits: 10 kits per box. 70 boxes per pallet.

#### MATERIAL PROPERTIES

Property	Value
Colour: Part A Part B	Pale Grey Dark Brown
Mix Time (at 20°C / 68°F)	Approx. 30 seconds*
Rise Time (at 20°C / 68°F)	1.5 – 2.0 minutes*
Set Time (at 20°C / 68°F)	3 - 5 minutes*
Full Strength	2 hours
Specific Gravity Part A: 20°C Part B:	1.06g/cm <sup>3</sup> (0.065in <sup>3</sup> ) 1.24 g/cm <sup>3</sup> (0.076 in <sup>3</sup> )
Viscosity: Part A: 25°C Part B:	600cP (1451 lb/foot-hour) 240cP (580 lb/foot-hour)
Free Rise Density:	92 kg/m <sup>3</sup> (5.74 lb/ft <sup>3</sup> )
Moulded Density (overall)	120-150 kg/m <sup>3</sup> (7.49 lb/ft <sup>3</sup> - 9.36 lb/ft <sup>3</sup> )
Compressive Strength Parallel to rise	0.8MPa (116.3 Psi)
Tensile Strength Parallel to rise	0.5MPa (72.5 Psi)
Ozone Depletion Potential	Zero
Global Warming Potential	0.35

\*At Higher temperatures these times will be shorter. At colder temperatures these times will be longer.

NOTE: The performance data, identified above are typical for drill mixed material, but are not intended for use as specifications due to variations in testing conditions.

#### Storage & Shelf Life

Shelf life is one year from date of manufacture.

Kongcrete<sup>®</sup> can be used outside in summer and winter, even when temperatures are as low as -30°C (-20°F) or as high as 38°C (100°F). However, the Kongcrete<sup>®</sup> kit must be climatized at 18°C - 25°C (65°F – 77°F) for at least two hours before installation. For more detailed installation instructions, consult the Kongcrete<sup>®</sup> Instruction Sheet or contact a Kongcrete<sup>®</sup> representative.

#### Clean Up

After Kongcrete dries, it can only be removed mechanically with sand paper or a utility knife which may damage the post.

Whilst every effort is made to ensure it's accuracy, the data held on this sheet is meant for informational purposes only. The typical properties listed are the result of extensive laboratory tests, but since Kongcrete Ltd has no control over the end use of each material, the Company cannot guarantee that these results will be obtained in practice. Users should conduct their own tests to determine the suitability of each material for its intended application. For optimum results use within six months of delivery.