TECHNICAL DATA SHEET

September 2025, Issue 1

POLECRETE LITE

POLECRETE LITE is a high-performance, two-component polyurethane (PU) expanding foam engineered for securely anchoring a variety of poles into the ground. **POLE**CRETE LITE offers a fast, efficient and durable alternative to traditional methods like concrete mortar. By eliminating the need for water and significantly reducing labour requirements, **POLE**CRETE LITE streamlines installation while delivering exceptional stability. Compliant with the Montreal Protocol (ozone depletion potential) and the Kyoto Protocol (global warming potential), **POLE**CRETE LITE is formulated with environmental responsibility in mind, making it a sustainable choice for modern construction needs.

APPLICATIONS

POLECRETE LITE is ideal for securely anchoring fence lines, signposts, playground equipment, composite decks, timber poles and clotheslines into the ground, offering a versatile and efficient solution for various pole-setting needs.

PHYSICAL PROPERTIES

PART A		PART B	
RESIN (POLYOL BLEND)		**RESINATE 200 MDI**	
APPEARANCE	Amber Red Liquid	**APPEARANCE**	Dark Brown Liquid
PART A SIZE	0.750 Kg	**PART B SIZE**	0.750 Kg
DENSITY	1.00 g/ml	**DENSITY**	1.22 - 1.23 g/ml

MIX RATIO BY VOLUME	1:1 (m/m) (Polyol Part A : MDI Part B) **Mixing to be done in kit form only**
FIRM SET TIME	Approximately 10 minutes, at which point the pole can stand independently
HARD SET TIME	Approximately 1 hour 30 minutes, after foam cools, achieving a hard consistency
FULL CURE TIME	Approximately 3 hours
TOTAL SYSTEM WEIGHT	1.5 Kg per kit
FOAM VOLUME PER KIT	Approximately 14 - 15 litres
FREE RISE CORE DENSITY (ASTM D1622)	90kg/m³ - 95kg/m³ (Reef) 95kg/m³ - 100kg/m³ (Coastal)
CREAM TIME	40 - 45 seconds (Bottle mix)
GEL TIME	155 - 165 seconds (Bottle mix)

NOTE: Reaction speeds determined at 20 °C (Lab conditions). Elevated temperatures may accelerate reaction times.

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GUIDELINE ON APPLICATION OF POLECRETE

TOOLS REQUIRED:

- **POLE**CRETE LITE foam kit (Part A and B)
- Hole auger or spade
- Stopwatch or timer
- Utility knife or saw (optional for trimming)

MIXING & APPLICATION PROCEDURE

STEP 1: PREPARE THE HOLE

- Dig or bore the cavity hole, ensuring it is free of excessive moisture; if moisture is present, line the hole with a suitable plastic barrier.
- Position the pole upright in the hole and secure it in place, (using large stones if necessary to stabilize the base, foam will expand around the stones).

STEP 2: PREPARE THE MATERIALS

- Ensure Part A and Part B are at a temperature between 20–25°C (ideal) and do not exceed 35°C, as higher temperatures may cause the mixture to react rapidly. Do not pre-mix or over-shake bottles prior to use.

STEP 3: MIXING PROCEDURE

- Pour Part B (isocyanate) fully into the Part A (polyol) bottle.
- Securely close the cap of Part A.
- Shake vigorously for 15 seconds. Do not shake longer than 15 seconds to avoid pressure build up. Use both hands and shake vertically and horizontally. The reaction starts within ~30 seconds after mixing. Be ready to pour immediately after shaking.

STEP 4: POURING

- Immediately after mixing, remove the cap and pour the contents into the bottom centre of the prepared hole, ensuring the foam evenly surrounds the pole for secure anchoring.
- Hold the pole steady by hand or with supports during the foaming and curing process, ensuring it remains immobile to achieve proper anchoring.

STEP 5: SETTING & CURING

- Foam will expand rapidly and become firm within 10 minutes.
- Full cure is achieved in approximately 3 hours, depending on ambient conditions.

Please note: reactions times will differ depending on climate conditions. Should you require assistance in determining material required for the cavity size, please contact our offices.

SAFETY CONSIDERATIONS

Always wear safety glasses and gloves when mixing and applying **POLE**CRETE LITE to protect against potential splashes and skin contact. For safety considerations, refer to MSDS.

TO LEARN MORE: WWW.RIGIFOAM.COM

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