

RAPIDLY DEPLOYABLE BUILDING MADE FROM CONCRETE CLOTH



The Concrete Canvas Shelter is a rapidly deployable hardened shelter that requires only water and air for erection. It can be deployed by two people without any training in approximately thirty minutes and is ready to use in twelve hours. The shelter consists of a cement-impregnated fabric (Concrete Cloth) bonded to the outer surface of an inflatable plastic inner structure.

Prior to construction, the shelter is delivered folded in a sealed plastic sack. Once the sack is positioned and filled with water, the fiber matrix wicks water into the cement, naturally controlling the water-to-cement ratio. The sack is cut open after hydration, and a battery-driven fan inflates the inner plastic lining, causing the structure to lift. After a duration of twelve hours, the concrete will have set sufficiently for use.

The fibers of the Concrete Canvas fabric form a coherent matrix within the concrete, providing tensile reinforcement and helping prevent crack propagation. If desired, the shelter can be buried with over 20 inches (50 centimeters) of sand on the roof in order to provide increased insulation and protection.

CONTENTS

Concrete

APPLICATIONS

Emergency shelter, ground improvement, helipads, building repairs, damp proofing, formwork, fire protection

TYPES / SIZES

172.2 ft² and 269.1 ft²
(16 m²) and 25 m²) area

ENVIRONMENTAL

Rapid deployment of shelter for emergency aid, efficient use of material, good thermal properties

LIMITATIONS

Setup time is 30 minutes, but sufficient hardening requires 12 hours

CONTACT

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