



Material Specifications Submittal

PolarCure™
Concrete Insulation Blanket

Material Specification:

PolarCure insulation blankets by McTech Group, Inc. are thick natural cellulose fibers sandwiched by one layer of reflective coated polyethylene and one layer of black polyethylene. PolarCure is available in 8' x 30' rolls.

The natural cellulose fabric in the insulation blankets consists of airlaid cellulose fibers with a target basis weight of 340 grams per square meter and a target thickness of 10 mm/ply.

The outside layers consist of a clear blend of LLDPE and conventional LDPE copolymers. The film exhibits good impact strength, with balanced tensile and elongation properties.

The edges of the insulation blankets are continuous ultrasonic sealed with eyelets spaced periodically.

The excellent "R" value reduces the energy consumption for curing concrete by preventing the heat of hydration from the curing concrete from escaping into the atmosphere.

PolarCure insulation blankets are stored in rolls and can easily be re-rolled for future use. If the polyethylene outer layers are damaged, simply tape over the damaged area using a waterproof tape. No need for sewing or factory repair.

Application:

PolarCure insulation blankets can be laid over the concrete curing blanket directly after the curing blanket installation. Overlap the edges in a manner that does not allow gaps in the insulation. After the curing period has expired, remove the PolarCure insulation blanket by rolling up in the eight-foot direction. Using the eyelets, tie the roll together. Keep stored in a dry location.

Physical Properties- PolarCure

<u>Property</u>	<u>Value</u>	<u>Test Method</u>
Basis Wt. (Insulation)	340 g/sm	ASTM D-2103
Caliper	10 mm	ASTM D-5199
Tensile	TD-34,100 psi	ASTM D-882
	MD-32,700 psi	
Elongation	TD-90%	ASTM D-882
	MD-110%	
Reflectance	98%	ASTM E-1447

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