



VERSION 18.1

TOPPER™ Pro Plus

CONCRETE CURING
BLANKET

DIVISION
033900

1 PRODUCT NAME

PRODUCT NAME: TOPPER® PRO PLUS
Concrete Curing Blanket

2 MANUFACTURER

ISI BUILDING PRODUCTS

401 Truck Haven Road, East Peoria Illinois 61611
Phone: 866.698.6562 / Fax: 309.698.0065 / www.isibp.com

3 PRODUCT DESCRIPTION

3.1 BASIC USE

Topper Pro Plus is a concrete curing blanket designed for both hot and cold weather curing. Topper Pro Plus allows the concrete to maintain sufficient levels of water and heat so the concrete can achieve its desired physical properties while providing protection from outside weather elements such as wind, rain, sleet and snow. Common uses include all types of wall forms, slab-on-grade, curbs, gutters, footings and pier boxes. For cold weather curing, position the black poly layer facing up to absorb and transfer heat produced from the sun down into the concrete. During hot weather conditions, position the aluminum layer facing up. This allows the heat generated from the sun to be reflected, preventing water in the concrete from evaporating too quickly.

3.2 COMPOSITION & MATERIALS

Topper Pro Plus is composed of high-density polyethylene bubble between a layer of black polyethylene and a layer of high-reflective aluminum foil.

3.3 SIZE

Thickness: 5/16"

Standard Size: 48" x 125', 96" x 125'

3.4 WEIGHT

48" x 125' = 22 lbs/roll

96" x 125' = 45 lbs/roll

4 TECHNICAL DATA

4.1 APPLICABLE STANDARDS

ASTM C 236 Standard Test Method for Steady-State Thermal Performance of Building Assemblies by Means of a Guarded Hot Box

ASHRAE 2005 Handbook of Fundamentals

ASTM E 96 Standard Test Method for Water Vapor Transmission of Materials

ASTM C 1371 Standard Test Method for Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers

ASTM D 751 Standard Test Method for Coated fabrics

ACI 308R-16 Guide to External Curing of Concrete

ACI 308.1-11 Specification for Curing Concrete

4.2 ENVIRONMENTAL CONSIDERATIONS

Topper Pro Plus is manufactured using recycled resins.

4.3 PHYSICAL PROPERTIES

The black layer of Topper Pro Plus is manufactured with high-density polyethylene, which adds additional strength and tear resistance to the product. The physical characteristics of Topper Pro Plus allow it to be reused. Topper Pro Plus is lightweight and easy to transport from job to job. The HDPE bubble within Topper Pro Plus prevents water from being trapped between the outer skins.

5 INSTALLATION

PLACEMENT

5.1 Proper planning to maintain adequate temperatures and keep the concrete from freezing should be done prior to expected periods of freezing weather. Equipment and materials should be readily available at the site before cold weather is likely to occur. All surfaces expected to be in contact with freshly poured concrete should be at temperatures not likely to cause early freezing. Concrete should not be placed on frozen sub-grade.

5.2 For areas requiring less coverage than the Topper Pro Plus roll size, simply cut to fit.

5.3 Place Topper Pro Plus over all exposed concrete surfaces as soon as the concrete receives a finish and hardens sufficiently.

5.4 Provide sufficient material to cover all surfaces and edges with excess to hold material securely in place by weighing down or an alternative fastening method. Allow for a minimum of twelve inch (12") overlap between adjoining pieces of Topper Pro Plus.

5.5 Keep Topper Pro Plus in place until the concrete conforms to criteria specified. The weather conditions can dictate or prolong the amount of time it takes for the concrete to cure properly. Check with project architect/engineer on desired time of coverage for concrete to properly reach its peak performance.

These are very general installation instructions. Instructions on architectural or structural drawings should be reviewed and followed. Detailed installation instructions can be obtained by calling our 866.698.6562 or online at www.isibp.com

6 AVAILABILITY AND COST

Topper Pro Plus is sold through construction supply houses across the United States and Canada.

Topper Pro Plus current cost information can be obtained by calling our corporate sales office at 866.698.6562.

7 WARRANTY

Warranty information can be obtained by calling our corporate office at 866.698.6562 or online at www.isibp.com.

8 MAINTENANCE

Requires no maintenance once installed.

9 TECHNICAL SERVICES

Technical information and detailed test results can be obtained by calling ISI Building Products toll free at 866.698.6562.

10 FILING SYSTEMS

Additional information can be obtained by calling our corporate office at 866.698.6562 or online at www.isibp.com.

PROPERTIES	TEST METHOD	RESULTS
THICKNESS, NOMINAL	N/A	5/16 IN.
DEGRADATION/LINEAR SHRINKAGE	N/A	NONE
WATER VAPOR PERMEANCE	ASTM E 96	0.02 PERMS
BURSTING STRENGTH	ASTM D 751-00	87.6 PSI
EMISSIVITY	ASTM C 1371	.03 TO .04
TEMPERATURE RANGE	N/A	-50° F TO 180° F
THERMAL RESISTANCE (R-VALUE)	ASHRAE 2005 (3.5" AIR SPACE)	R-3.8 (HEAT FLOW DOWN) R-9.6 (HEAT FLOW DOWN)

NOTE:

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