

Sika® UltraCure DOT™

Single-Use Wet Curing Blankets for DOT and Pervious Applications

Description Sika® UltraCure DOT™ (Natural Cellulose Fabric) single-use wet curing blankets provide constant and thorough hydration while maintaining a 100% relative humidity condition on the slab for a curing period of 14 days resulting in less surface discoloration and more evenly cured concrete.

Where to Use Concrete slabs-on-ground requiring a 14 day curing period.

Typical structures include:

- Warehouse / Distribution Centers
- Big Box Stores
- Manufacturing Facilities
- Commercial / Industrial Complexes
- Chemical Containment Storage Areas
- Water / Wastewater Treatment Structures
- Entertainment Centers
- Decorative Concrete Applications
- Bridge Decks and Concrete Paving
- Parking Lots and Site Paving
- Airports

Advantages

- Absorbs and distributes water evenly over the entire concrete surface
- Maintains 100% relative humidity on the slab for a minimum of 14 days
- Reduction of material, labor, re-wetting time, storage, and transportation costs that are involved when using traditional wet cure methods
- Increases concrete strength and durability
- Reduces permeability of concrete, cracking, crazing, dusting, and efflorescence
- Improves abrasion resistance
- Helps prevent plastic shrinkage cracking

Typical Data Sika® UltraCure DOT™ moisture-retaining coverings are natural colored cellulose fabrics with a perforated white reflective polyethylene vapor barrier applied to one side to help provide protection against UV degradation. Both non-staining fabrics have a tensile strength meeting ASTM D-882 and a minimum retention capacity of 6.5 (g). Material shall meet or exceed ASTM C171, AASHTO M171, Standard Specifications for Sheet Materials for Curing Concrete slabs or pavement, and ACI 308 Curing Concrete guidelines. The superior water retention ability of Sika® UltraCure DOT™ allows the blanket to absorb more than 55 gallons of curing water per 800 ft² roll, providing the critical moisture required for the long-term wet curing of concrete surfaces.

Property	Value	ASTM Test Method
Caliper	1.7 mm	ASTM D-5199
Tensile	TD: 3,733 psi MD: 2,872 psi	ASTM D-882
Elongation	TD: 90% MD: 110%	ASTM D-882
Absorption	800%	WSP 10.1
Dart	150 g	ASTM D-1709
Reflectance	> 70%	ASTM E-1447
TD = Transverse Direction MD = Machine Direction		
Results may differ based upon statistical variations depending upon temperature, application methods, test methods, actual site conditions, and curing conditions.		



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Waterproofing

Packaging	Sika® UltraCure DOT™ rolls are shrink wrapped in a clear poly covering and stacked four (4) wide by four (4) high on a wooden pallet that will have the overall dimensions of forty four (44) inches wide by ninety six (96) inches long. Pallets are double stacked for shipment. 384 rolls fit onto a truck (24 pallets). One roll of Sika® UltraCure DOT™ weighs 50 lbs. One pallet of Sika® UltraCure DOT™ weighs 900 lbs.
Coverage	800 ft ² per roll (8 ft wide x 100 ft long roll)
How to Use	
Cure Mechanism	Super absorbent fibers that effectively trap water and serve as a hydrating reservoir for the slab as it cures.
Surface Prep	Remove any debris and loose material from the concrete surface to be cured.
Application	<p>Place Sika® UltraCure DOT™ wet cure covering in widest practical width as soon as concrete has hardened sufficiently to prevent surface damage. Edges and ends shall be lapped 4" - 6". Install Sika® UltraCure DOT™ moisture containing wet cure covering material as per manufacturer's written instructions as soon as practical and while the surface of the concrete is still moist. After blanket installation on slab surface, wet top surface of perforated curing blanket with 1/8" to 1/4" inch of water to cover entire surface area of blanket. Monitor surface temperature of concrete and continue to apply curing water to the top of the curing blanket until concrete surface is within 15 degrees of ambient temperature. No portion of this product shall be re-used once it has been put into use on a slab on grade or other concrete application.</p> <p>Maintain Sika® UltraCure DOT™ in place on concrete for a period of not less than seven (7) days and up to (14) days after placement. Continuous inspection for the purpose of maintaining 100 % curing blanket contact with surface to be cured is recommended using appropriate restraints placed to keep the material in place for outside use where wind could be an issue. Periodic monitoring of moisture retention in the curing blanket is recommended and additional water should be applied if required.</p>
Removal	Pick up the blankets and properly dispose of them after the 14 day curing period. If removing the blankets after an extended period of time, rewetting of the slab may be required.
Shelf Life	18 months
Handling & Storage	No special safety measures required. Store in a dry location away from open flame.
Clean Up	Pick up the blankets and properly dispose of them after the 14 day curing period. If removing the blankets after an extended period of time, rewetting of the slab may be required.
First Aid	This product is an inert solid. First aid is normally not required. Seek medical attention if ingested.
Further Information	Consult a Sika® Greenstreak® engineer to review your specific project parameters, additional product information, documentation for LEED® compliance purposes, or warranty information.

KEEP OUT OF REACH OF CHILDREN • NOT FOR INTERNAL CONSUMPTION • FOR INDUSTRIAL USE ONLY • FOR PROFESSIONAL USE ONLY

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Sika warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

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The Sika logo consists of the word "Sika" in a bold, yellow, sans-serif font, set against a red triangular background. A registered trademark symbol (®) is located to the right of the word.

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