



PRODUCT DATA SHEET

Edition 12.2017/v1
CSC Master Format™ 03 39 23.23
SHEET MEMBRANE CONCRETE CURING

UltraCure DOT™

SINGLE-USE WET CURING BLANKETS FOR DOT AND PERVIOUS APPLICATIONS

Description	UltraCure DOT™ are single-use wet curing blankets made of natural cellulose fabric and designed to 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 discolouration and more evenly cured concrete.
Where to Use	Concrete slabs-on-ground requiring a 14 day curing period. Typical structures include: <ul style="list-style-type: none"> ▪ 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	<ul style="list-style-type: none"> ▪ 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, labour, 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.
Standards	Both non-staining materials have a tensile strength meeting ASTM D882 and a minimum retention capacity of 6.5(g). Material shall meet or exceed ASTM C171-03, ASTM C171-97a, and AASHTO M171-00, standard specifications for sheet materials for curing concrete slabs or pavement.

Typical Data	
Packaging	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 1.117 m (44 in) wide by 2.438 m (96 in) long. Pallets are double stacked for shipment. 384 rolls fit onto a truck (24 pallets). One roll of UltraCure DOT™ weighs 22.68 kg (50 lb) One pallet of UltraCure DOT™ weighs 408.24 kg (900 lb).
Appearance	UltraCure DOT™ moisture-retaining coverings are natural coloured cellulose fabrics with a perforated white reflective vapour barrier applied to one side to help provide protection against UV degradation.
Coverage	74.32 m ² (800 ft ²) per roll [2.438 m (8 ft) wide x 30.48 m (100 ft) long roll]
Shelf Life	18 months
Handling & Storage	No special safety measures required. Store in a dry location away from open flame.
Properties	
Caliper ASTM D5199	1.7 mm
Tensile ASTM D882	TD: 25.73 MPa (3733 psi) MD: 19.80 MPa (2872 psi)
Elongation ASTM D882	TD: 90 % MD: 110 %
Absorption WSP 10.1	800 %
Dart ASTM D1709	300 g
Reflectance ASTM E1447	> 70 %
TD = Transverse Direction MD = Machine Direction	
<i>Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.</i>	

HOW TO USE

Cure Mechanism Super absorbent fibres that effectively trap water and serve as a hydrating reservoir for the slab as it cures.

Surface Preparation Remove any debris and loose material from the concrete surface to be cured.

Priming Place UltraCure DOT™ wet cure covering in widest practical width as soon as concrete has hardened sufficiently to prevent surface damage. Roll out the UltraCure DOT™ curing blanket on the wet concrete surface absorbent side down. Roll out the UltraCure DOT™ blanket in a straight line while continuously feeding water to the leading edge to assure saturation. Edges and ends shall be lapped 100 -150 mm (4 - 6 in). Install 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 3 to 6 mm (1/8 to 1/4 in) 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.

Maintain 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.

Removal/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, re-wetting of the slab may be required.

Health and Safety Information For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY

The Information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions, within their shelflife. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca

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Certified ISO 9001 (CERT-0102780)
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