



**PRODUCT DATA SHEET**

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SHEET MEMBRANE CONCRETE CURING

# UltraCure NCF™

## SINGLE-USE WET CURING BLANKET

<b>Description</b>	UltraCure NCF™ (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 7 days resulting in less surface discoloration and a more evenly cured concrete slab.
<b>Where to Use</b>	Concrete slabs-on-ground and decorative concrete requiring a 7 day cure.  Typical structures include: <ul style="list-style-type: none"> <li>▪ Warehouse/Distribution Centers.</li> <li>▪ Big Box Stores.</li> <li>▪ Manufacturing Facilities.</li> <li>▪ Commercial/Industrial Complexes.</li> <li>▪ Chemical Containment Storage Areas.</li> <li>▪ Water/Wastewater Treatment Structures.</li> <li>▪ Entertainment Centers.</li> <li>▪ Decorative Concrete Applications.</li> <li>▪ Bridge Decks and Concrete Paving.</li> <li>▪ Parking Lots and Site Paving.</li> <li>▪ Airports.</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>▪ Rolls come with fabric side out, making it easy to install.</li> <li>▪ Taping the seams is not required.</li> <li>▪ Absorbs and distributes water evenly over the entire slab surface.</li> <li>▪ Features an opaque reflective poly backing which provides visual confirmation that the slab remains wet for the entire curing period.</li> <li>▪ Reduction of material, labour, re-wetting time, storage, and transportation costs that are involved when using traditional wet cure methods.</li> <li>▪ Increases concrete strength and durability.</li> <li>▪ Reduces permeability of concrete, cracking, crazing, dusting, and efflorescence</li> <li>▪ Improves abrasion resistance.</li> <li>▪ Helps prevent plastic shrinkage cracking.</li> </ul>
<b>Standards</b>	The moisture retaining covers have a tensile strength meeting ASTM D882 and a minimum retention capacity of 6.5(g). The material meets or exceeds ASTM C171- 03, ASTM C171-97a, and AASHTO M171-00, standard specifications for sheet material for curing concrete slabs or pavement. The superior water retention ability of UltraCure NCF™ allows the blanket to absorb more than 174 L (46 US gal.) of curing water per 148.64 m <sup>2</sup> (1600 ft <sup>2</sup> ) roll, providing the critical moisture required for the long term wet curing of concrete surfaces.

<b>Typical Data</b>	
<b>Packaging</b>	UltraCure NCF™ 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 NCF™ weighs 22.68 kg (50 lb) One pallet of UltraCure NCF™ weighs 408.24 kg (900 lb).
<b>Appearance</b>	UltraCure NCF™ moisture-retaining coverings are natural coloured, non-staining cellulose fabrics with an opaque and impervious coating applied to one side. The impervious coating is also a non-perforated and reflective vapour barrier, which provides UV protection.
<b>Coverage</b>	148.64 m <sup>2</sup> (1600 ft <sup>2</sup> ) per roll [2.438 m (8 ft) wide x 60.96 m (200 ft) long roll]
<b>Shelf Life</b>	18 months
<b>Handling &amp; Storage</b>	No special safety measures required. Store in a dry location away from open flame.
<b>Properties</b>	
<b>Caliper ASTM D5199</b>	1.4 mm
<b>Tensile ASTM D882</b>	TD: 32.98 MPa (4783 psi) MD: 33.78 MPa (4900 psi)
<b>Elongation ASTM D882</b>	TD: 721 % MD: 622 %
<b>Elmendorf ASTM D1922</b>	TD: 1500 g MD: 350 g
<b>Dart ASTM D1709</b>	300 g

**Reflectance ASTM E1447** > 70 %  
TD = Transverse Direction MD = Machine Direction  
*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.*

## HOW TO USE

<b>Cure Mechanism</b>	Super absorbent fibres that effectively trap water and serve as a hydrating reservoir for the slab as it cures.
<b>Surface Preparation</b>	Remove any debris and loose material from the concrete surface to be cured.
<b>Application</b>	As soon as the concrete has hardened sufficiently to prevent surface damage, place the UltraCure NCF™ roll on to the wet surface, plastic side up and fiber side down. Unroll the curing blanket in the widest practical width, making sure that sides and end present an overlap of at least 75 mm (3 in). Immediately repair any holes or tears during curing period using additional UltraCure NCF™ wet cure blanket and water. Cover entire surface area including edges of paving and sidewalks. Install UltraCure NCF™ moisture containing wet cure blankets as per manufacturer's written instructions. Wet surface of slab-on-grade with 3 to 6 mm (1/8 to 1/4 in) of water to cover entire surface area of slab, then slowly unroll the UltraCure NCF™ blanket onto slab using the roller squeegee applicator. No portion of this product shall be reused once it has been put into use on a slab-on-grade or other concrete application. Maintain UltraCure NCF™ in place on concrete for a period of not less than seven (7) days after placement. Continuous inspection for the purpose of maintaining 100 % curing blanket contact with surface to be cured is recommended.
<b>Removal/Clean Up</b>	Pick up the blankets and properly dispose of them after the 7 day curing period. If removing the blankets after an extended period of time, re-wetting of the slab may be required.
<b>Health and Safety Information</b>	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](http://www.sika.ca)

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