



## Ultra-Flex™ 5000S

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### DESCRIPTION

Ultra-Flex™ is a high quality liquid urethane coating that cures into a durable, flexible sealant that water-proofs and stops rust. It has a wide range of applications including tank linings, new or replacement roofs, sealing concrete surfaces, coating pilings, sealing potable water towers; ship, tug and barge rust abatement. It is a safe, easy to apply material and cures rapidly. In cases where the finished surface requires higher slip resistance, shredded rubber is added to the Ultra-Flex™ during mixing on-site.

### APPLICATION

Ultra-Flex™ is shipped in two containers that equal five gallons (19 liters) when mixed. After the surface preparation has been completed, Ultra-Flex™ can be mixed and applied. When planning the job, please consider that the mixed material has a pot life of 30 minutes or less depending on ambient temperature. The product can be applied by brushing, rolling, trowel, or with a serrated squeegee. It can also be installed by spraying but requires special equipment. Please contact a Southern Chem representative for information on spraying Ultra-Flex™.

As a roof surface replacement, Ultra-Flex™ can be used directly over most roofing materials without removing the old, and forms a seamless, continuous surface. Ultra-Flex™ chemically hardens, therefore it can be applied in any reasonable ambient temperature. Surfaces must be dry, as excessive moisture will cause imperfections in the surface finish.

Approximate Coverage: 60 mils, (60/1000 of an inch) for roof top application. Thinner or thicker installations may be required on different applications. Consult SCI for installation assistance.

Ultra-Flex™ is also available in a white top coat when solar reflectance is required. This white product is ENERGY STAR approved and helps in conserving energy. Ultra-Flex™ has proven to be an important product in the rehabilitation of Transite and metal roofs for commercial and industrial facilities.

### SURFACE PREPARATION

All surfaces must be clean, dry, and free of oil and grease; loose paint or scale, and dirt must be removed. Dirty surfaces may require pressure washing and the use of an industrial cleaner before application of Ultra-Flex™. Please note, in cases of very dirty concrete, it may be necessary to acid wash the surface to ensure a clean porous surface for Ultra-Flex™ to bond. Repair any cracks prior to installation.

### PRIMING

It will not be necessary to sand blast all concrete surfaces. In some cases, priming the surface will provide the best clean and dry substrate for the final application. Primer used prior to applying Ultra-Flex™ must be free of silicone and cure without any residue.

### SAND BLASTING

Although it is not necessary to sand or grit blast before applying Ultra-Flex™ to a concrete surface, the greater the surface area developed by micro-porosity, the greater the adhesion. On some very smooth surfaces, sand blasting may increase the surface area to which the coating can adhere. Maximizing the adhesion of Ultra-Flex™ is important to ensure that it will remain effective as a waterproofing coating. Clean, rough and porous surfaces are ideal for Ultra-Flex™.

## APPLICATION

Some of the industrial services tested for use are as follows:

Acetic acid, bio-oxidation ponds, bromine-saturated, chlorine-saturated, citric acid, cooling towers, copper sulfate solution, deionized water, ethylene glycol, muratic acid, nitric acid <10%, phosphoric acid <10%, sewage disposal plants, salt water attack, and many more. SCI recommends contacting our technical group to review your conditions before using Ultra-Flex™ in special circumstances such as aforementioned.

## CLEAN UP

Ultra-Flex™ is a hydrocarbon based product and cleans up with mineral spirits. Any clean-up desired should be accomplished immediately, as once the product cures, cleaning is virtually impossible.

## SPECIFICATIONS

		ASTM
Density	60.86	
Tensile strength, psi	1392	D412
Elongation %	247	D892
Tensile Modulus, psi	1321	D412
Tensite Extension to Break	5.4	D624
Graves Tear ( pull 20 inches per minute )	230	D1004
Graves Tear ( pull 2 inches per minute )	228	D2240
Water Absorption % weight	0.31	
% solids ( +/- 2% )	90%	
Moisture Vapor Transfer	.002	F. 96

## WARRANTY

Limited Warranty: SOUTHERN CHEM INDUSTRIES warrants Ultra-Flex™ as a urethane coating under normal use and installation conditions.

FOR HANDLING AND PRECAUTIONARY INFORMATION PLEASE REFERENCE THE PRODUCT LABEL, AND THE MATERIAL SAFETY DATA SHEET

All statements presented herein are believed to be accurate and reliable but are not to be taken as a guarantee, express warranty or implied warranty or merchantability or fitness for a particular purpose, or representation, express or implied, for which seller assumes legal responsibility, and they are offered solely for your consideration, investigation and verification. Statements or suggestions concerning possible use of this product are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe on any patent. Printed in USA.