

## STARSEAL<sup>®</sup> FINISH COAT ULTRA

### ADVANCED STAIN PROTECTION FOR POLISHED CONCRETE

#### DESCRIPTION

**STARSEAL FINISH COAT ULTRA** is the next generation of the original non-film forming StarSeal Finish Coat stain resistant penetrating sealer for polished concrete, and the final step when installing **StarSeal Clear FSR**.

The StarSeal Finish Coat Ultra technology is the best protection against staining in the market today. It provides the installer with a quick dry, burnish the same day product. It also provides the owner with greater than 24 hours of stain and etch resistance from acetic acid based food items such as vinegar, mustard, pickle and citrus juices along with other items.

StarSeal Finish Coat Ultra is designed for use on polished concrete surfaces previously densified with **StarSeal Clear**, and rinsed with **StarSeal Fixative**. The treated surface will provide stain resistance while significantly increasing the gloss level and the co-efficient of friction.

#### BENEFITS

- Quick dry-less than one hour
- High speed burnish same day
- 24 hour food and chemical stain protection
- No film to wear through
- Plugs micro-pores to provide stain protection
- Intensifies colored floors
- Helps hide polishing imperfections
- Non-slip finished floor
- Increased ease of maintenance
- No reapplication needed

#### SURFACE PREPARATION

StarSeal Finish Coat Ultra is the final product to be applied when installing StarSeal FSR. After StarSeal Fixative has been thoroughly rinsed, polish the concrete up to the desired level of shine. Clean and allow polished concrete to dry.

#### APPLICATION

- StarSeal Finish Coat Ultra should not be diluted or altered.
- Apply with low-pressure (20-50 PSI) pump up sprayer and then spread ultra-thin with a Vexcon EvenFlow Applicator or microfiber pad. Sprayer should be clean and fitted with solvent resistant hoses and gaskets.
- Apply ultra thin (approximately 1500 sq. ft. /gal) so that the product just darkens or wets out the surface. StarSeal Finish Coat Ultra will dry in 30 minutes, depending on temperature and other conditions. See Coverage Section.
- Make sure all ridges, puddles or applicator marks are completely removed by rolling or pulling the surface smooth. Allow to dry prior to applying next coat. Three coats must be applied in this same manner. With each coat, it is expected that the dry time will be longer than the prior coat. Additional light coats may be required until the material no longer penetrates into the surface. Once all required coats are applied, allow to dry one hour or overnight.
- After drying, StarSeal Finish Coat Ultra must be high speed propane burnished.

**Important:** You are done burnishing when all surface film has been removed.

#### HIGH SPEED PROPANE BURNISHING

StarSeal Finish Coat Ultra must be high speed propane burnished with surface temperature a minimum of 20<sup>0</sup> F above initial temperature.

- Use the black pad to create heat and remove all excess.
- Use the hogs hair pad to bring out the shine
- Use the white pad to increase shine and dust off the surface.

#### MAINTENANCE

Spills should be removed promptly and cleaned with **StarSeal<sup>®</sup> EF Degreaser and Cleaner** (Data Sheet # OP 138) or a high quality commercial detergent. Floors should be cleaned as needed. For more details, see TN 40 StarSeal Maintenance.

#### SPECIAL NOTES

- The product should be stored in sealed containers and kept away from extreme heat.
- Protect glass from over spray.
- If properly stored in its original sealed container, three years from date of manufacture. Rotate your stock.
- For use by certified Cert-Shine installers only.

## SPECIFICATIONS/COMPLIANCE

StarSeal Finish Coat Ultra has been tested according to the most current test procedures in the industry. Testing includes water absorption/repellency ratings, penetration and salt spray resistance. Results are listed below and independent test reports are available on request.

- VOC Content: <600 grams/liter or <5.00 #/gal  
Meets:
  - USEPA AIM-Waterproofing Sealers and Treatments
- LEED NC category/points:
  - StarSeal concrete floors can potentially contribute 14 or more LEED points. For more information visit [vexcon.com/green](http://vexcon.com/green). For LEED EQ 4.2, see StarSeal Finish Coat Ultra AIM or StarSeal Finish Coat Ultra WB.
- Case Consulting Laboratories: Coefficient of Friction Determinations ASTM 2047:
  - StarSeal – average – 0.54
  - StarSeal Finish Coat – average – 0.63
- Penetration (3 coat application) 7mm-13mm.
- Scale rating-ASTM C-672-84 100 freeze thaw cycles-0 (no scaling).
- Reduces water absorption (ASTM C-67 and ASTM C-140) by greater than 84%.
- Chloride screen test using NCHRP 244 series IV (1 application at 125 sq.ft. /gal.) min 90%.
- CSI Reference: 03 35 00, 03 36 00
- USDA approved

## PACKAGING

StarSeal Finish Coat Ultra is available in 55-gallon drums and 5-gallon pails. Contact Vexcon to discuss your customized packaging requirements.

## COVERAGE RATES

Multiple coats yielding 400-550 sq. ft. /gal.  
Example 3 coats @ 1500 sq. ft. /gal depending on porosity of concrete.

## VITAL STATISTICS

- Flash Point: 92° F (33° C) minimum
- Boiling Point: 256° F (126° C)
- Autoignition Temp: 780° F (420° C)
- Extinguishing Media: Foams, Dry Chemical, CO<sub>2</sub>, Water Fog, spray

## HEALTH AND SAFETY

- Use only with adequate ventilation.
- Use of gloves, goggles and other protective clothing is advised when using this product.
- If swallowed, do not induce vomiting.
- Use of respirators is advised when using in confined areas.

Vexcon MSDS CT120 is an integral part of the safety and application of our product. A short synopsis is provided in this product data sheet. Before using this Vexcon product it is advisable to obtain a copy of the MSDS CT120 from your distributor or by contacting Vexcon Chemicals.

## CHEMICAL RESISTANCE CHART

### StarSeal Clear & MicroStain

Tested by ASTM D 1308, “Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes” for 1 hour.

After 24 hours on existing concrete, and 28 days on fresh concrete, surfaces treated with StarSeal Finish Coat Ultra provide the following resistances

<u>CHEMICAL</u>	<u>RESULTS STARSEAL Clear NO FSR</u>	<u>RESULTS FSR TREATMENT Clear &amp; MicroStain</u>
Aluminum Chloride	S	NE
Ammonium Chloride	S	NE
Anti Freeze	NE	NE
Aviation Gasoline's	SS	NE
Battery Acid 30% Sulfuric Acid	SS	M
Brake Fluid	SS	NE
Carbonic Acid 85%	NE	NE
Chromic Acid 10%	NE	NE
Cooking Oil	SS	NE
Ethyl Alcohol (Beer)	SS	NE
Gasoline	NE	NE
Grease	SS	NE
HCL (10%)	SS	NE
Iodine	SS	NE
Isopropyl Alcohol	NE	NE
Jet Fuel	SS	NE
Ketchup	S	NE
Lemon Juice – Citric Acid	SS	NE
Milk	S	NE
Motor Oil	SS	NE
Mustard	NE	NE
NAOH (10%)	NE	NE
Orange Juice – Citric Acid	SS	NE
Phosphoric Acid 85%	SS	NE
Potassium Dichromate	S	NE
Red Wine	S	NE
Salt Spray Resistance	SS	500 hr
Sodium Sulfate	NE	NE
Sodium Sulfite	NE	NE
Tannic Acid	S	NE
Transmission Fluid	SS	NE
Urine	S	NE
Vinegar Acetic Acid (10%)	S	NE
Zinc Sulfate	S	NE

\* S = Stain                      \* SS = Slight stain  
\* NE = No effect                \* M = Minimal

The resistance is based upon proper application to saturation of StarSeal Clear treated concrete. Results can differ where applications are compromised.

## CONTACT US @

Additional product information, technical assistance and customer service is available by contacting Vexcon Chemicals directly.

- [vexcon.com](http://vexcon.com)
- [techservice@vexcon.com](mailto:techservice@vexcon.com)
- [customerservice@vexcon.com](mailto:customerservice@vexcon.com)
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## WARRANTY

Vexcon warrants that the goods supplied hereunder shall be of its standard quality and shall conform in all material respects to the sample which has been made available for testing by buyer prior to sale. As the EXCLUSIVE REMEDY for any breach of this Limited Warranty, Vexcon shall replace nonconforming goods or refund the purchase price. Since methods of use and application are beyond Vexcon's control, this Limited Warranty IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THOSE CONCERNING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS LIMITED WARRANTY IS ALSO IN LIEU OF ANY OTHER POSSIBLE LIABILITIES OF VEXCON, WHETHER ALLEGED TO ARISE BY AGREEMENT OR BY OPERATION OF LAW, RESPECTING THE SALE, APPLICATION, USE OR FUNCTION OF VEXCON'S PRODUCTS, INCLUDING BUT NOT LIMITED TO CLAIMS OR NEGLIGENCE, GROSS NEGLIGENCE, STRICT LIABILITY OR ANY OTHER TORT. IN NO EVENT SHALL VEXCON BE LIABLE FOR PERSONAL INJURY OR PROPERTY DAMAGE, REAL OR PERSONAL, ATTRIBUTED TO ITS PRODUCTS, NOR FOR ANY EXCAVATION, REMOVAL, REAPPLICATION, DOWN TIMES, CLEANUP, LOSS OF USE, LOSS OF OPPORTUNITY, LOSS OF MARKET VALUE, LOSS OF RENTAL VALUE OR FOR ANY LOSS OF PROFITS OR OTHER SPECIAL, INCIDENTAL, RESULTING, CONSEQUENTIAL OR EXEMPLARY DAMAGES.  
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