



1. Product Name

StarSeal EF Cure 100, 500, 1000

2. Manufacturer

Vexcon Chemicals
7240 State road
Philadelphia, PA 19135
(215) 332-7709
www.vexcon.com

3. Product Description

StarSeal EF products are high performance building materials that are dedicated to reducing their environmental footprint by improving the environmental performance of buildings, the air quality of its inhabitants and reducing the effects of volatile organic compounds (VOC's) on the environment.

StarSeal EF products can contribute points towards Leadership in Energy and Environmental Design (LEED) Green Building Rating System credits for certified projects in environmentally responsible new construction and building rehabilitation projects. Eco-Friendly attributes.

- Low odor
- Low VOC content
- LEED Points
- Safe to use
- Safe to store
- Packaged in recyclable containers

BASIC USE

Vexcon Chemicals manufactures the StarSeal EF Cure series from proprietary hydrocarbon resins produced in-house. StarSeal EF Cure Emulsion System is applied to the freshly placed concrete surface forming a tough, continuous, protective membrane. This film acts as a barrier allowing for low moisture transmission and maximum development of the concrete's strength and wear resistance during the early hardening stage. The protective film will not discolor the concrete and dissipates as exposed to light, other natural elements and traffic.

BENEFITS

- Provides for complete development of concrete's wear resistance and strength properties
- VOC compliant in every state/district
- Low moisture transmission rates
- Quick drying
- Prevents efflorescence, dusting and spalling
- Available with a factory supplied red fugitive dye to aid in verification of application
- Three grades to choose from
- Manufactured in Vexcon's computer controlled facility to ensure consistent Performance.

PACKAGING

Available in 55-gallon drums, 5-gallon pails and 275 gallon totes. Our packaging is recyclable type 2 high density polyethylene (HDPE).

YIELD

Apply at 200 sq.ft. /gal. (7.5 m2/L) or less depending on method of application and specification requirements.

SHELF LIFE

If properly stored in its original sealed container, two years from date of manufacture.

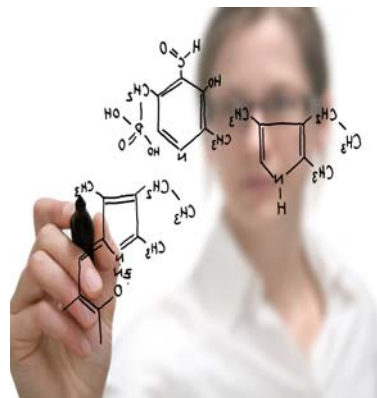
LIMITATIONS

- If StarSeal EF Cure is supplied with a red fugitive dye, do not use for interior applications. Dye will disappear after prolonged exposure to sunlight.
- Manufacturer's Qualifications: Specialize in manufacture of membrane curing compounds with a minimum of 10 years successful experience
- Applicator shall have prior experience applying curing compound.

4. Technical Data

APPLICABLE STANDARDS

- American Society for Testing Materials – ASTM
- American Concrete Institute – ACI
- American Association of State Highway and Transportation Officials – AASHTO
- United State Green Building Council (USGBC) Leadership in Energy and Environmental Design – LEED
- United States Environmental Protection Agency -EPA



APPROVALS

- VOC - All grades < 25gr/liter or 0.42 #/gal per EPA method 24
 - USEPA AIM-Concrete Curing Compounds
 - OTC- Concrete Curing Compounds
 - CARB- Concrete Curing Compounds
 - SQACMD - Concrete Curing Compounds
- American Society of Testing Materials – ASTM
 - ASTM C 309 Standard Specification for Membrane Forming Curing Compounds
- American Concrete Institute – ACI
 - ACI 308 Standard Practices for Curing Concrete
 - ACI 302.1 Guide for Concrete Floor and Slab Construction
- American Association of State Highway and Transportation Officials – AASHTO
 - M-148 Liquid Membrane Forming Compounds for Curing Concrete
- United State Green Building Council (USGBC) Leadership in Energy and Environmental Design – LEED
 - New Construction and Major Renovations 2.2v.
- United States Environmental Protection Agency (EPA)
 - Method 24 - Determination of Volatile Matter Content of Surface Coatings

PHYSICAL/CHEMICAL PROPERTIES

Color	Bright Yellow or Pink if with dye
Dry time @ 200 sq. ft/ gallon	2 hours
Water Retention @ 200 sq.ft. /gl	0.10 kg/m ²
Solvent	Emulsion
Wt/gl	8.4 /gl

ENVIRONMENTAL CONSIDERATIONS

- Do not apply when surface temperatures are below 40°F.
- Do not apply on windy days
- Do not apply when surface temperatures are above 85°F
- Keep from freezing
- Mix well before each use

5. Installation

PREPARATORY WORK

- Apply as soon as possible after concrete receives final finishing, just as the water sheen disappears. If application is delayed concrete must be kept wet, preferably by water spray mist, until the product is applied.
- Do not add thinner as product is supplied at the proper consistency for spraying. Dilution will reduce curing efficiency.
- Thoroughly mix by air or mechanical methods before use to ensure best results and ease of application.
- Apply by brush, roller or sprayer, however, application by sprayer is preferred.
- Curing shall be maintained for a minimum of seven (7) days or until seventy (70) percent of the specified concrete strength has been obtained.

PRECAUTIONS

- If StarSeal EF Cure is supplied with a red fugitive dye, do not use for interior applications. Dye will disappear after prolonged exposure to sunlight.
- Mix well before each use.

BUILDING CODES

Installation must comply with the requirements of all applicable local, state and federal code jurisdictions.

6. Availability & Cost

AVAILABILITY

Vexcon products are available nationwide. Contact Vexcon for a distributor in your area.

COST

Consult Vexcon Chemicals for detailed pricing information.

7. Warranty

Complete warranty terms and conditions are available from the manufacturer. For details, contact Vexcon Chemicals.



8. Maintenance

As this is a dissipating, temporary membrane, no ongoing maintenance is required.

9. Technical Service

Technical assistance, including more detailed product information, product literature, MSDS, test results and project lists are available. Call 1-888 VEXCON-1, or visit www.vexcon.com.

10. Filing Systems

- Product data sheet, 3-part specification, MSDS, test reports and additional product information is available at www.vexcon.com or by contacting Vexcon directly.
- Product code number: EFCC 200

