

# TECHNICAL DATA

## CFS-VERTICAL EPOXY PRIMER

### PRODUCT DESCRIPTION:

CFS-Vertical Epoxy Primer is a two component water based epoxy coating that exhibits chemical resistance and abrasion resistance rivaling solvent based products. CFS-Vertical Epoxy Primer was specifically designed for vertical applications up to 8 mils per coat without sagging.

### RECOMMENDED FOR:

Recommended for priming or coating concrete, wood or masonry.

### SOLIDS BY WEIGHT:

Mixed = 60% (+, - 2%)

### SOLIDS BY VOLUME:

Mixed = 46% (+, - 2%)

### VOLATILE ORGANIC CONTENT:

The mixed VOC = 0.70 pounds per gallon.

(regulatory VOC = 135g/l)

### STANDARD COLORS:

Off white, light gray, medium gray and tile red.

### RECOMMENDED FILM THICKNESS:

6-8 mils per coat wet thickness (yields 3-4 mils dry)

### COVERAGE PER GALLON:

200-267 square feet @ 6-8 mils wet thickness

### PACKAGING INFORMATION

2 gallon kit = 19.8 pounds net (ie 1.94 gallons total volume). A two gallon kit consists of two pre-measured part A's in gallon cans and two pre-measured part B's in quart cans. Other package sizes are available (volume and weight are approximate)

### MIX RATIO:

0.75 gallons part A per 0.22 gallons part B by volume (8.0 pounds part A per 1.90 pounds part B by weight)

### SHELF LIFE:

1 year in unopened containers

### FINISH CHARACTERISTICS:

Low satin gloss (5-15 at 60 degrees @ glossmeter)

### ABRASION RESISTANCE:

Taber abrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 56 mg loss

### IMPACT RESISTANCE:

Gardner Impact, direct = 50 in.lb. (passed)

### FLEXIBILITY:

No cracks on a 1/8" mandrel

### ADHESION:

425 psi @ elcometer (concrete failure, no delamination)

### VISCOSITY:

Mixed = 1,500-2,500 cps (typical)

**DOT CLASSIFICATIONS:** Not regulated

### CURE SCHEDULE:

pot life – 1 gallon volume ..... 1.0 – 1.5 hours  
tack free (dry to touch)..... 5-8 hours  
recoat or topcoat..... 7-10 hours  
light foot traffic..... 16-24 hours  
full cure (heavy traffic)..... 2-7 days

### APPLICATION TEMPERATURE:

55-90 degrees F with relative humidity below 75%

### CHEMICAL RESISTANCE:

REAGENT	RATING
acetic acid 5%	B
xylene	B
mek	A
gasoline	B
10% sodium hydroxide	C
50% sodium hydroxide	B
10% sulfuric	B
10% hydrochloric acid	B
20% nitric acid	A
ethylene glycol	C

Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion. NOTE: extensive chemical resistance information is available through your sales representative.

### PRIMER:

Non needed

### TOPCOAT:

CFS-Vertical Epoxy Top Coat

### LIMITATIONS:

Color or gloss may be affected by humidity, low temperatures, chemical exposure or sodium vapor lighting.  
Product will yellow in the presence of UV light  
For best results use a 1/4" or 3/8" nap roller.  
Slab on grade requires moisture barrier  
Substrate temperature must be 5°F above dew point.  
All new concrete must be cured for at least 30 days  
Product color will vary from batch to batch. Use only product from the same batch for an entire job.  
Improper mixing or too thick of an application may result in product failure  
Light or bright colors (white, safety colors etc.) may require multiple coats or a topcoat to achieve a satisfactory hide, depending on the substrate.  
Physical properties listed on this technical data sheet are typical values and not specifications.  
See reverse side for limitations of our liability and warranty.  
See reverse side for application instructions.

- 1) **PRODUCT STORAGE:** Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should be between 60 and 90 degree F. Keep from freezing.
- 2) **SURFACE PREPARATION:** Surface preparation will vary according to the type of complete system to be applied. For a one or two coat thin build system on vertical surfaces, we recommend mechanical scarification until suitable profile is achieved. All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the surface. A test should be made to determine that the concrete has an appropriate vapor barrier if below grade. This can be done by placing a 4'x4' plastic sheet on the surface and taping down the edges. If after 24 hours, the surface is still dry below the plastic sheet, then the substrate does not show signs of eventual hydrostatic pressure problems that may later cause disbonding. However, this product can be applied to a damp surface.
- 3) **PRODUCT MIXING:** This product comes pre-packaged by weight. Kits should be mixed in their entirety. If partial kits are to be used, refer to the front of this technical data for proper weight mix ratios. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. This product is an emulsion product and should be mixed well before using. Improper mixing may result in product failure.
- 4) **PRODUCT APPLICATION:** The mixed material can be applied by brush or roller. Maintain temperatures within the recommended ranges during the application and curing process. Apply material with relative humidity within the parameters shown on the technical data. When the end of the pot life has been reached, you will find that the material becomes hard to apply and will actually tend to roll back up onto the roller. Do not try to continue application when the coating has reached this step.
- 5) **RECOAT OR TOPCOATING:** If you opt to recoat or topcoat this product, you must first be sure that all of the solvents and water have evaporated from the coating during the curing process. The information on the front side are reliable guidelines to follow. However, it is best to test the coating before recoating or topcoating. This can be done by pressing on the coating with your thumb to verify that no fingerprint impression is left. If no impression is created, then the recoat or topcoat can be started. Always remember that colder temperatures will require more cure time for the product before recoating or topcoating can commence. Before recoating or topcoating, check the coating to insure no epoxy blushes were developed (a whitish, greasy film or deglossing). If a blush is present, it must be removed prior to topcoating or recoating. Many epoxy overlays and coatings as well as urethanes are compatible for use as a topcoat for this product as well as multiple coats of this product.
- 6) **CLEANUP:** Use PM solvent
- 7) **SURFACE CLEANING:** Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.
- 8) **RESTRICTIONS:** Restrict the use of the surface to light duty and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the surface remain dry for the full cure cycle. Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.

## **NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY**

*We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications. **NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABILITY OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT.** We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may **CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.***