

# FAST SET WATERBASED EPOXY TECHNICAL DATA

## PRODUCT DESCRIPTION:

GE-10WFS is a two component water based epoxy with good substrate penetration, chemical resistance and abrasion resistance. GE-10WFS becomes tack-free about 3 hours after application and can support light traffic in as little as 6-12 hours.

**RECOMMENDED FOR:** Recommended for priming or coating concrete masonry, or wood. This product can withstand exposure to many common solvents and chemicals. See the chemical resistance chart shown below.

**SOLIDS BY WEIGHT:** 43% (+/- 2%)

**SOLIDS BY VOLUME:** 40% (+/- 2%)

**VOLATILE ORGANIC CONTENT:** 1.2 pounds per gallon (mixed) (regulatory VOC = 250g/l)

**COLORS AVAILABLE:** Clear Only NOTE: The clear color is not water clear and is not suitable for topcoating use. The clear is only suitable as a primer or concrete sealer.

**RECOMMENDED FILM THICKNESS:** 5-7 mils per coat wet thickness (yields 2-3.5 mils dry)

**COVERAGE PER GALLON:** 229 to 320 square feet @ 5-6 mils wet thickness

**PACKAGING:** 1 gallon kits (volume approx.)

**MIX RATIO:** 4 parts A (.80 gallons, approximate) to 1 part B (.20 gallons, approximate).

**SHELF LIFE:** 1 year in unopened containers

**FINISH CHARACTERISTICS:** Gloss (>60 @ 60 degrees @ gloss-meter)

**ABRASION RESISTANCE:** Taber abrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 45 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:** 400-900 cps (typical)

**DOT CLASSIFICATION:** Not regulated

**PRIMER:** None required

**TOPCOAT:** Optional – Many products are suitable as topcoats including multiple coats of this product. For added chemical resistance, color stability, or UV stability, topcoat with a suitable aliphatic urethane.

## CURE SCHEDULE (70 Degrees F)

Pot Life (1 Gallon)	2 hours
Tack Free (Dry to Touch)	2-4 hours
Recoat or Topcoat	4-6 hours
Light Foot Traffic	6-12 hours
Full Cure (Heavy Traffic)	2-5 days
Application Temperature: 55-90 degrees F with relative humidity below 85%	

## CHEMICAL RESISTANCE

Acetic Acid 5%	B
Xylene	B
MEK	A
Gasoline	B
10% Sodium Hydroxide	C
10% Sulfuric	B
10% Hydrochloric Acid	B
20% Nitric Acid	A
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.	

## LIMITATIONS:

Color or gloss may be affected by humidity, low temperatures, chemical exposure, or sodium vapor lighting. This product will yellow in the presence of UV light. For the 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 28 days.

Product color will vary from batch to batch. Only use product from the same batch for an entire job.

Improper mixing or too thick of an application may result in product failure.

Physical properties listed on this technical data sheet are typical values and not specifications.

See reverse side for application instructions.

See reverse side for limitations of liability & warranty

FAST SET WATERBASED EPOXY

## MIXING AND APPLICATION INSTRUCTIONS:

**PRODUCT STORAGE:** Store GE-10WFS in normal room temperature before using. Long term storage should be between the temperatures of 60 and 90 degree F. Keep from freezing.

**SURFACE PREPARATION:** For a one or two coat thin build system (3-10 mils dry) we recommend either mechanical grinding or acid etching until a suitable profile is achieved. For a complete system build higher than 10 mils dry, we recommend shot blasting the surface. All dirt, oil, dust and foreign contaminants must be removed to assure a proper bond to the surface. The concrete must be completely moisture free. You can test if the surface is sufficiently dry by placing a 4' X 4' plastic sheet on the surface and taping down the edges. If after 24 hours, there is no condensation on the plastic sheet, then the surface does not show signs of critical moisture levels that may later cause disbonding.

**PRODUCT MIXING:** This product comes pre-measured by weight. Kits should be mixed in their entirety, but if smaller amounts are needed, they must be mixed at a 4 parts A : 1 part B ratio. After the two parts are combined, mix well with a slow speed paint mixer until the material is thoroughly mixed and streak free. Mix for approximately 2-3 minutes.

**PRODUCT APPLICATION:** The mixed GE-10WFS can be applied by a brush or a roller. Keep temperatures within 60-90 degrees F during the application and curing process. Apply material with the relative humidity within the parameters shown on the technical data sheet. When the pot life expires, the material will become hard to apply and will tend to roll back up onto the roller. Do attempt continuing application when the coating has reached this stage. Applications made at different times with differing environmental conditions, may show slight variations in gloss, so try to calculate and finish a job in one attempt.

**RECOAT OR TOPCOATING:** To recoat or topcoat this GE-10WFS, you must first be sure that all of the solvents and water have evaporated from the coating during the curing process. It is best to test the coating before recoating and 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 you may recoat or topcoat. Always remember that colder temperatures will need more cure time before recoating or topcoating. Before recoating or topcoating, check the coating to make sure no epoxy blushes were developed (a whitish, greasy film). Blushes must be removed prior to topcoating or recoating with any standard type detergent cleaner. Many epoxy coatings as well as urethane coatings are compatible for use as a topcoat on this product.

**CLEANUP:** Use PM solvent

**FLOOR CLEANING:** Caution! Some cleaners may affect the color of the floor. Test each cleaner in a small, out of the way area. If no ill effects are noted, you can continue to clean with the product and process tested.

**RESTRICTIONS:** Keep the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor 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 MERCHANTABLE 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.***

**COPYRIGHT 09/04/2016 GLOBMARBLE INC.**