



## PRODUCT DATA SHEET

### Epoxy Flow 100% Solids Clear Epoxy

#### I. PRODUCT AND MANUFACTURER IDENTIFICATION

<b>Product Name</b>	<i>Epoxy Flow 100% Solids Clear Epoxy</i>		
<b>Manufacturer</b>	Concrete Floor Supply		
<b>Address</b>	13024 2 <sup>nd</sup> Street Suite A Grandview, MO 64030 U.S.A.		
<b>Emergency Phone</b>	816-599-2319		
<b>Information Phone</b>	816-599-2319		
<b>Email</b>	marketing@concretefloorsupply.com		
<b>Website</b>	<a href="http://www.concretefloorsupply.com">www.concretefloorsupply.com</a>	<b>Date Revised</b>	November 15, 2016

#### II. DESCRIPTION

Epoxy Flow 100 is a 100% solid, two component, cyclo-aliphatic epoxy. It has excellent durability including abrasion resistance, chemical resistance and hot tire resistance. Epoxy Flow 100 is user friendly and used in high performance concrete epoxy coating systems.

Epoxy floor is designed for a variety of seamless high build concrete flooring applications. It is an excellent coating for auto service centers, warehouses, computer rooms, aircraft hangers and more.

#### III. ADVANTAGES AND CONSIDERATIONS

- Excellent long-term wear capabilities.
- Excellent chemical resistance
- Excellent resistance to stain
- Avoid applications on surfaces without effective vapor barriers
- Surfaces must be sound and without contaminates.
- Application temperatures should be 55-90°F with relative humidity below 85%

#### IV. PHYSICAL PROPERTIES

Solids by Weight	100%
Solids Content	100%
VOC	< 5 grams per liter
Color	Clear or Pigmented
Recommended Film Thickness	16-18 mils
Coverage Per Gallon	100-150 square feet per gallon
Packing Information	.75 Gallon, 3 Gallon and 15 Gallon
Mix Ratio	2 parts A to 1-part B by Volume
Abrasion resistance	Taber abrasor CS-17 calibrase wheel with 1000g total load and 500 cycles = 28.1mg loss
Shelf Life	1 year in unopened containers
High Gloss, 60°F	90-95 @ Erichsen Glossmeter
Elongation	7%
Viscosity	Mixed = 400-600 cps; typical
DOT Classification	Part A: Not Regulated Part B: <b>CORROSIVE LIQUIDS N.O.S., 8, UN2735, PGIII</b>
Hardness	Shore D=82
Tensile Strength	6200 psi @ ASTM D638

#### V. CHEMICAL RESISTANCE

Acetic Acid 5%	C	<b>KEY</b>
Xylene	C	<b>A – Not Recommended</b>
Mek	A	<b>B – 2 Hour Term Splash Spill</b>
Butanol	C	<b>C – 8 Hour Term Splash Spill</b>
Gasoline	C	<b>D – 72 Hour Immersion</b>
Ethylene Alcohol	C	<b>E – Long Term Immersion</b>
Methanol	A	
10% Sulfuric Acid	C	
70% Sulfuric Acid	A	
10% Sodium Hydroxide	E	
50% Sodium Hydroxide	D	

## VI. CURE SCHEDULE 75°F

Pot Life	20-30 Mins
Tack Free; Dry to Touch	6-8 Hours
Recoat or Topcoat	10-16 Hours Minimum
Light Foot Traffic	14-18 Hours Minimum
Full Cure; Heavy Traffic	2-7 Days

## VII. LIMITATIONS

- Colors or gloss may be affected by high humidity, low temperatures, chemical exposure or exposure to lighting such as sodium vapor lights.
- For best results use a ¾" Nap roller
- Slab on grade requires moisture barrier
- Substrates temperature must be 5°F ABOVE dew point
- Physical properties are typical values and not specifications
- Tire contact may cause staining or discoloration; long term parked vehicles
- Colors may vary from batch to batch therefore use only product from the same batch for an entire job.

## VIII. MIXING AND APPLICATION INSTRUCTIONS

SURFACE PREPARATION: A fine to medium shot blasting or the use of a diamond grinding machine to obtain a surface profile of a CSP - 3 to a CSP - 5 is suggested for ultimate adhesion. A test should be made to determine that the concrete is dry; this can be done by placing a 4 x 4 plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate should be ready to coat. More advanced moisture testing kits should be used on floors with suspected moisture problems. **Epoxy Flow 100** is designed to be applied only to primed surfaces within the recommended recoat window of the primer or previously sealed surfaces that have sufficient adhesion to the substrate. Apply coating to a clean surface that is completely dry and free of oil, dirt, grime, wax, detergent or any incompatible paint or coating. If applying to an existing fully cured and fully adhered coating, the surface must be cleaned and sanded with 80—100 grit sandpaper. If multiple coats of **Epoxy Flow 100** are required apply the second coat as close as possible to the suggested recoat time (see technical information section on this data sheet). Do not exceed 24 hours to recoat or a light sanding may be needed for adequate adhesion between coats.

PRIMING: We always suggest priming your concrete with a moisture mitigating primer M.V.B. This gives your extra protection from moisture that could possibly come up through your concrete and gives you better adhesion.

PRODUCT MIXING: Pour a full pre-packaged kit of 2 parts of Part A to 1 part of Part B together and mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and

homogenous. Avoid whipping air into the coating. Improper mixing may result in product failure.

PRODUCT APPLICATION: Apply the mixed material with a brush, roller, trowel, notched squeegee or gauge rake and then back roll evenly to maintain the desired thickness within the usable pot life time frame, as well as the recommended temperature and relative humidity guidelines listed in the Technical Information section. If concrete conditions or aggressive mixing causes air entrapment, then an air release roller tool should be used prior to the coating tacking off to remove the air entrapped in the coating. If the material becomes thick while applying and sticking to the application tools, stop applying and discard the mixed material. At this point it has reached the end of the usable pot life. While applying keep a wet edge to prevent streaking. It is recommended to work in sections usually using control joints as dividers to ensure proper application results. Do not allow to Puddle! If recoating after 24 hours a light sanding using a fine sanding screen may be needed to ensure adequate inner coat adhesion.

PLEASE NOTE: Applying Epoxy Flow 100 outside of the suggested parameters may result in job failure. It is always recommended to test the product in a small, inconspicuous area (on the same concrete substrate) for desired results prior to application. Coverage rates may vary for all coatings and substrates depending on porosity, density, texture etc.

## VIII. WARRANTY

**Concrete Floor Supply®** warrants 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 suitability of our product for your purpose. 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 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.