Product Description- VersaFlex VF 105 is a bisphenol F novolac epoxy concrete coating that offers an economical and highly serviceable coating for areas subject to harsh chemical exposure. VF 105 is a self-priming and/or a semi-leveling two-component epoxy. It is formulated to withstand the most aggressive industrial exposures, including high concentrations of sulfuric acid, as well as many organic chemicals and solvents.

Uses- VersaFlex VF 105 is an excellent bisphenol F epoxy for industrial areas with extreme exposures, but where affordability is a requirement. VF 105 is designed to offer chemical resistance and protective coating for concrete structures that experience heavy wear, abuse and chemical attack.

Ideal for Applications in:
- Process Slabs
- Chemical Loading and Unloading Areas
- Spill Containment Areas
- Battery Recycling and Recharging Stations

Advantages:
- Low permeability
- 100% Solids
- Excellent Resistant to:
  - Wear and Impact
  - Thermal Shock
  - Cracking
- High Corrosive Strength and Flexibility
- Economical
- Excellent Chemical Resistance

Physical Properties-

<table>
<thead>
<tr>
<th>Property</th>
<th>Unit</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solids by Volume</td>
<td>Volume</td>
<td>100%</td>
</tr>
<tr>
<td>Pot Life</td>
<td>75°F</td>
<td>30 – 45 minutes</td>
</tr>
<tr>
<td>Cure Time</td>
<td>75°F</td>
<td>Light Vehicular traffic: 24 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chemical Service: 36 hours</td>
</tr>
<tr>
<td>Recoat Window</td>
<td>75°F</td>
<td>24 hours</td>
</tr>
<tr>
<td>Able to Topcoat</td>
<td>75°F</td>
<td>5 – 7 hours</td>
</tr>
<tr>
<td>Hardness</td>
<td>ASTM D2240</td>
<td>68 – 72 Shore D</td>
</tr>
<tr>
<td>Compressive Strength</td>
<td>ASTM C579</td>
<td>12,000 psi</td>
</tr>
<tr>
<td>Flexural Strength</td>
<td>ASTM D790</td>
<td>10,000 psi</td>
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<tr>
<td>Tensile Strength</td>
<td>ASTM D638</td>
<td>4,500 psi</td>
</tr>
<tr>
<td>Elongation</td>
<td>ASTM D638</td>
<td>6%</td>
</tr>
<tr>
<td>Permeability</td>
<td>ASTM E96</td>
<td>0.006 perm</td>
</tr>
</tbody>
</table>

Packaging-
- Five Gallon Kit: 4 gallons of ‘A’ side and 1 gallon of ‘B’ side
Application Guidelines:

Temperature Considerations:
1. Throughout the application process, the surface temperature should remain above 50°F.
2. Store all materials at 70°F - 85°F for at least 24 hours prior to use.
3. Subsequent temperature shall be 5°F above dewpoint temperature and rising.

Surface Preparation of Concrete:
1. Surface must be free of dirt, dust, oil, grease, chemical and other contaminants immediately prior to applying VF 105.
2. New concrete should be cured a minimum of 28 days.
3. Concrete must be structurally sound and must not contain any accelerators or curing compounds.
4. Remove all surface laitance and expose sound concrete. Abrasive blasting is recommended achieving a CSP of 2 to 4.
5. Any existing coating should be completely removed.
6. Honeycomb and form voids on vertical surfaces may be filled using VersaGrout 200 or Vertical Mender.

Priming: VersaFlex VF 105 may be utilized as a self priming coating or in lieu of another VersaFlex primer. The use of a primer such as the VF 30 or VF 31 is recommended. When using the VF 105 as a self priming coating, apply a thin 5 – 10 wet mil coating and follow the same procedures and guidelines as described within.

Application Equipment: VersaFlex VF 105 may be applied using a single component airless sprayer, 4 to 1 volume ratio plural component proportioner, or brush and roller.

Mixing and Application:
1. The A and B components should be individually pre-mixed immediately prior to use.
   - Part A – Blend to a uniform consistency in its own container using a jiffy type mixer.
   - Part B – Stir in its own container to a uniform color.
2. If using a plural component proportioner, follow equipment manufacturer recommendation for equipment operations. Spray unit shall be capable of processing a 4:1 volume ratio.
3. If using a single component airless sprayer or roller:
   - Pour the entire contents of Part B into the container holding Part A and mix thoroughly for two minutes with a jiffy type mixer.
   - The pot life of the mixture will be approximately 30 – 45 minutes @ 75°F. Elevated temperatures will shorten the pot life.
4. If using as a primer, apply a 5 – 10 wet mil coat (approximately 160 – 320 square feet per gallon).
5. Apply final finish coats at a minimum of 15 wet mils and up to 20 wet mils (approximately 80 to 106 square feet per gallon). For thicker films, additional coats may be needed.
6. To prepare the coating for intercoat adhesion:
   - Allow VF 105 to cure until gelled prior to subsequent coat.
   - If the surface cures firm to the touch, but it is less than 24 hours, it MUST be washed with water, and dried before recoating/overcoating.
   - Surface cured beyond 24 hours MUST be washed with water, dried and lightly sanded or abrasive blasted.

Clean Up: Cured product may be disposed of without restriction. Excess liquid material should be mixed together and allowed to cure, then disposed of in the normal manner. Product containers that are “drip free” may be disposed of according to local, state and federal laws.

Safety: Review MSDS at VersaFlex.com
Basic safety for personal protection is:
- Long sleeve overalls or disposable Tyvex overalls
- Rubber gloves
- Splash shield or safety glasses with splash guards
- Rubber or leather boots
- Respirator
- Do not use near high heat or open flame
- Do not take internally
- Keep out of reach of children

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Shelf Life- One year from date of shipment, in original, unopened factory containers, under normal storage conditions of 55°F to 95°F (18°-35°C).

Technical Services- Sales and Customer Support 913-321-9000

Warranty- VersaFlex Incorporated will refund the price of or replace, at its election, product it finds to be defective provided the product has been used properly. Except as expressly stated above, the company makes no warranty of merchantability and no warranty of fitness for any particular purpose, nor does it make any warranty, expressed or implied, of any nature whatsoever with respect to the product or its use. In no event shall the company be liable for delay caused by defects, for loss of use, for indirect, special or consequential damages, or for any changes or expenses of any nature incurred without its written consent.