



VersaFlex Incorporated  
 686 S. Adams Street  
 Kansas City, KS 66105  
 (913) 321-9000  
 (913) 321-1490 (fax)

## Material Processing & Handling Information

**Material:** Aliphatic ClearCoat FR  
**Material Type:** Aliphatic Polyaspartic Polyurea  
**Application:** High Gloss Color Stable Finish Coating - Flooring  
**Application Process:** Spray or Floor Coater

Process Equipment:	Tools	Part Number
<b>Floor Coaters:</b>	Padco™ Big Foot Professional Floor Coater	6200 Series of Lightweight or Heavyweight Coaters – 12" to 30", 1 pack  Nylfoam Floor Coater Refills – 6000 Series, 12" to 30", 6 pack
<b>Airless:</b>	7/8 hp min. (Graco Ultra 395)	0.017 to 0.021 tip
<b>Cup Gun or Pressure Pot:</b>	Must have air dryer	
<b>Process Temperature:</b>	Ambient	
<b>Mix Ratio:</b>	1:2 (1 Part 'A', 2 Part 'B') by volume plus 5 to 15% of clean & dry acetone by volume may be added.	
<b>Working Time:</b>	10 - 12 minutes (@ 77° F)	
<b>Pot Life:</b>	20 - 25 minutes (@77°F with recommended acetone reduction)	
<b>Tack Free:</b>	1.5 - 2 Hours	
<b>Light Traffic:</b>	3 hours	
<b>Heavy Traffic:</b>	7 Days	

**Mix Instructions:** Aliphatic ClearCoat FR is prepackaged in separate containers with adequate space in the Part 'B' container to accept the full contents of the Part 'A' container and provided color pigment.

**Full or Partial Batch Mix:** Mix part 'A' with part 'B' until thoroughly mixed (use paint paddle or low speed drill mixer; however, do not entrain air or bubbles into the mixture. 5 to 15% acetone (approximately 2 quarts if mixing entire 3 gallon kit) by volume may be added to the mixed 'A' & 'B' to obtain stated pot life.  
 If color is desired, add color pigment to the diluted 'A' & 'B' mixture until color is homogeneous.

Example: Color pigment packs are 0.8 quart volume each. If 25% of each 'A' & 'B' portions are used, only add 25% of color pigment pack.

---

**Moisture Content:** Calcium chloride test: 3 lb./24 hr./1,000 ft<sup>2</sup>  
Concrete: 5% maximum as per ASTM F2170 & ASTM F2420.

---

**Application Temperature:** 20°F and higher. **Aliphatic ClearCoat FR** will cure at temperatures down to 20°F. However, cure times will be extended. Do not apply to frozen concrete substrates with high moisture content, as this will affect coating adhesion and long-term performance.

---

**Surface Prep:** Abrasive blast per ICRI Technical Guideline No. 310.2R-2013 or SSPC SP13. Achieve the appropriate ICRI CSP, consult VersaFlex.

---

**Surface contaminates:** Check for soluble salts on surfaces to be coated. Test with Chlor\*Test. If amount of soluble salts exceeds recommended limits, treat with Chlor\*Rid. Repeat process until acceptable limits are reached.  
Maximum amounts of soluble salts (micrograms per square centimeter):  
Chlorides - 3 immersion, 7 non-immersion  
Nitrates - 5 immersion, 10 non-immersion  
Sulfates - 10 immersion, 20 non-immersion

---

**Adhesion Testing:** Adhesion to concrete: Minimum 150 psi.

---

**Application:** Apply **Aliphatic ClearCoat FR** in one coat using Floor Coater from Padco. Determine starting location for coating work. Pour ribbon of mixed material onto surface to be coated. Using applicator, spread coating slowly keeping the applicator at a 30 to 45 degree angle. Special care should be taken to prevent excess material from flowing onto the finished area. At the end of each pass, reverse the applicator angle and repeat the same process in the opposite direction. Cut-in of corners and hard to reach areas may be done with the use of a 4" to 6" wide tight nap roller. The working time of the product is 10 to 12 minutes. Once mixed material comes in contact with surface, the working time period has started.

---

**Application Rates:** Up to 10 mils per application; approximately 160 square feet per gallon depending on substrate porosity and surface profile. Vertical areas shall be coated in lower millage applications/multiple coats to achieve the required mil thickness. Maximum overcoat time is 4 hours. Areas to be over coated that exceed the recoat limit should be cleaned and wiped with VF TackCoat at a rate of 500-600 square feet per gallon to reactivate the coating surface.

---

	<b>Storage Temp.</b>	<b>Storage</b>	<b>Special Handling</b>
<b>'A' Side</b>	60°F min. 70°F optimum	Keep dry. Keep from freezing. Store in covered temperature controlled environment if possible.	Keep containers closed and protected from atmospheric contamination.
<b>'B' Side</b>	60°F min. 70°F optimum	Keep dry. Keep from freezing. Store in covered temperature controlled environment if possible.	Keep containers closed and protected from atmospheric contamination.

---

**Safety:** Please consult product MSDS for full details.  
Safety glasses, rubber gloves, protective clothing, organic vapor or fresh air respirator.

---