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Product Data Sheet

Aliphatic ClearCoat™ FR Polyaspartic Pure Polyurea ASTM E84 Class 1 Flame Resistant Coating USGBC LEED, EQ Credit 4: Low-emitting VOC Compliant Materials

Product Description- VersaFlex Aliphatic ClearCoat FR is a high solids, color stable aliphatic polyurea coating developed for applications requiring a flame resistant coating. It is a fast set, rapid curing, two-component polyurea coating that is Class 1 Flame resistant approved. Aliphatic ClearCoat FR may be applied directly to most substrates and may be used as a topcoat for existing epoxy, polyurethane, or polyurea. This coating is extremely color stable and displays excellent UV weathering characteristics. Aliphatic ClearCoat FR may be applied in temperatures as low as 20°F. When fully cured, Aliphatic ClearCoat FR will produce a highly abrasion resistant, high-gloss, smooth finish.

Uses- Aliphatic ClearCoat FR is a superior flame resistant material that resists ignition, will self-extinguish if ignited and adheres well to most substrates including concrete, steel, wood and plastic. The excellent chemical resistance is well suited for many harsh applications.

Ideal for Applications in:

- Any exterior use requiring color stability
- Automobile dealership floors
- Aircraft hangers
- Decorative floor coating

Advantages:

- Class 1 Flame Resistant Approved Material
- Fast cure, high solids, low VOC's
- Color stable, excellent UV stability
- Adheres well to most substrates
- Low odor
- Cures as low as 20°F
- High gloss finish
- USDA, FSIS approved
- Adds new life to epoxy floors
- Conforms to SSPC-Paint 39, Type 2

Physical Properties-

(Typical) 1:2 Mix Ratio		
Cured Film Properties	Test Method	Typical Value
Pot life	(@ 77°F w/recommended acetone reduction)	20 – 25 minutes
Tack free	ASTM D1640	1.5 – 2 hours
Dry-to-recoat	ASTM D1640	2 hours
Maximum recoat window	ASTM D1640	4 hours
Gloss (60°)	ASTM D523	~80
The following properties are typical after maintaining cured product at 70°F - 77°F for seven days:		
Tensile strength (psi)	ASTM D638	1300 – 1700
Tensile elongation (%)	ASTM D638	60 – 80
Elastic modulus (kpsi)	ASTM D638	1700 – 2400
Tear strength (lb/in)	ASTM D624	180 – 220
Shore D hardness	ASTM D2240	25 – 30
Taber abrasion, mg wt loss (1000g, 1000 revs, C-17)	ASTM D4060	50 – 60

The value ranges stated in this Technical Data Sheet are based on system processing under laboratory conditions. Equipment configurations and/or field application conditions may produce variances in final system values.

Limitations- Requires a dry substrate.

Packaging-

- Three Gallon Kit: 1 gallon of 'A' side and 2 gallons of 'B' side

Mixing- **Aliphatic ClearCoat FR** is prepackaged in separate containers with adequate space in the part 'B' container to accept the full contents of 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 by volume may be added to the mixed 'A' & 'B' to obtain the stated pot life. If color is desired, add color pigment to the diluted 'A' & 'B' mixture until color is homogeneous.

Colors- Clear or pigmented. View ColorFlex color chart at versaflex.com.

Preparation & Installation- **Aliphatic ClearCoat FR** adheres well to sound substrates including concrete, steel, wood and plastic. All surfaces should be free of loose particles, contaminant, voids and spalls. It is recommended that the product be applied in a multi-directional (north-south, east-west) motion to ensure proper coating thickness. Chloride levels should be checked prior to application. **Aliphatic ClearCoat FR** may be applied up to a 10 mil thickness per application. A second coat shall be applied within 4 hours of initial coat. The working time of this product is 10 to 12 minutes. Please review Material Processing & Handling Information for further details. Not to be used for constant immersion environments.

It is recommended to wipe steel surfaces with acetone prior to application of **Aliphatic ClearCoat FR**. This will remove moisture or dust that may have accumulated on the surface after abrasive blasting. **Aliphatic ClearCoat FR** may be over coated after it has become tack free.

Clean Up- Cured product may be disposed of without restriction. Excess liquid 'A' & 'B' 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 SDS 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

Shelf Life- One year from date of shipment, in original, unopened factory containers, under normal storage conditions of 60°F to 95°F (18°-35°C).

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

VersaFlex Product Manufacturer's Warranty-

During a period of one-year from date of shipping, VersaFlex Incorporated will refund the price of or replace, at its election, product it finds to be defectively manufactured, provided the product has been stored and used properly. Except as expressly stated herein, 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 charges or expenses of any nature incurred without its written consent.