



VersaFlex Incorporated
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Product Data Sheet

GELFLEX® 1115

USGBC LEED, EQ Credit 4:
 Low-emitting VOC Compliant Materials

Product Description- *VersaFlex GELFLEX 1115* is a 100% solids, color stable, aliphatic polyurea coating system. **GELFLEX 1115** is designed to be applied in thin film applications, 10 to 20 mils (250 to 500 microns) dry film thickness. **GELFLEX 1115** may be applied directly to properly prepared substrates and may be used as a topcoat for existing epoxy, polyurethane, polyester or polyurea. **GELFLEX 1115** is extremely color stable and displays excellent UV weathering characteristics. **GELFLEX 1115** may be applied in temperatures as low as 20° F. When fully cured, **GELFLEX 1115** will produce a highly abrasion resistant, high-gloss, smooth finish coating. **GELFLEX 1115** may be used over most conventional substrates requiring some flexibility.

Uses- **GELFLEX 1115** is ideal for any exterior environment requiring color stability or where an existing coating needs new life.

Ideal for Applications in:

- Any interior or exterior area requiring color stability
- Water features and other amusement park surfaces that require smooth, glossy finishes
- Adds new life to polyester gel coats
- Harsh applications where chemical resistance is needed
- Composite/FRP fabrication
- Processing Plants

Advantages:

- Fast cure, 100% solids, no VOC's
- High tensile strength, extremely high abrasion resistance
- Color stable, excellent UV stability
- Low odor
- Cures as low as 20°F
- High gloss finish (>85 @ 60°)
- USDA & FSIS approved
- No styrene additives
- Does not require wet sanding or buffing
- Exposure temperatures -15°F to 140°F
- Conforms to SSPC-Paint 39, Type 2

Property	Test Method	Typical Value
Solids content	Theoretical	100%
Gel Time	ASTM D1640	~2 minutes
Tack Free	ASTM D1640	~8 minutes
Dry-to-Recoat	ASTM D1640	Up to 1 hour
Open to Use (immersion exposure)	Theoretical	48 hours after application
Tensile Strength (psi)	ASTM D638	2500 – 4500
Tensile Elongation (%)	ASTM D638	3.0 – 5.5
Modulus of Elasticity (kpsi)	ASTM D638	130 – 200
Tear Strength (lb/in)	ASTM D624	350 – 600
Shore (D) Hardness	ASTM D2240	60 – 70
Taber abrasion, mg wt loss (1000 g, 1000 revs, H-18)	ASTM D4060	80 – 140

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.

Packaging-

- One Hundred Ten Gallon Kit: 55 gallons of 'A' side and 55 gallons of 'B' side
- Sixty Gallon Kit: 30 gallons of 'A' side and 30 gallons of 'B' side
- Ten Gallon Kit: 5 gallons of 'A' side and 5 gallons of 'B' side

Preparation & Installation-

- Substrates shall be clean, dry and sound.
- Concrete shall be at least 28 days old and have a CSP of 3 to 5. Prime with appropriate primer as required.
- Metal substrates shall have a 3 - 5 angular mil blast profile (SSPC SP-10).

Colors- View ColorFlex 5000 series color chart at versaflex.com

Suggested Recommendations for FRP Substrate-

- 1.) Wash FRP Composite with a non-fragrant, non-moisturizing type soap and water to remove any residual oils/tanning lotions/contaminants on surface of FRP Composite part.
- 2.) Sand, removing any oxidized layers and post applied coatings until the original FRP Composite Coating or laminate resin used in the OEM fabrication has been exposed. Note: The use of acetone can be employed to ensure the exposed layer does not soften.
- 3.) Ensure a profile of ~100 microns (4 mils) has been achieved through abrasion.
- 4.) Wash FRP Composite with a non-fragrant, non-moisturizing type soap and water to remove any residual oils from mechanical abrading devices and rinse well.
- 5.) Allow FRP Composite part to dry thoroughly before applying GELFLEX.

GELFLEX adheres well to sound substrates including concrete, steel, aluminum, wood and plastic/fiberglass that are properly prepared and primed with the appropriate primer, as required. All surfaces shall be free of loose particles, rust, voids and spalls. **GELFLEX** shall be applied in one pass to desired thickness. Thicknesses of 10 to 20 mils are recommended depending on application. Apply at an approximate spread rate of 80 to 160 square feet per gallon.

- Must be applied at 1:1 ratio using heated plural component spray equipment.
- Ideal application is with appropriate material heaters & high pressure proportioner at recommended levels of 2000-3000 psi & 150°F temperature.
- Low pressure spray of material is also an option, but most ideal for repairs or small application areas only, consult **VersaFlex** for additional information.
- Recommended to extensively flush proportioning equipment well prior to spraying **GELFLEX** if aromatic based polyurea or polyurethane systems have been used before. Material shall not be re-circulated to warm up at the same temperature the material will be sprayed at. Suggested re-circulation temperature is 100°F maximum.

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- Six months from date of manufacturing, in original, unopened factory containers, under normal storage conditions of 45°F to 95°F (18°-35°C). Do not store in constant warm temperature environments. Use of nitrogen blanket is recommended after initial opening of containers to help ensure no moist air enters containers.

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.