



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

Product Data Sheet

FX Mender™

Polyurea Repair Polymer

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

Product Description- *VersaFlex FX Mender* is a 100% solids uniquely formulated rapid repair Polyurea product. In its basic low viscosity formulation, **FX Mender** may be used in a variety of unique applications to repair concrete substrates.

Uses- *VersaFlex FX Mender* may be used with all *VersaFlex* rapid curing polyurea sealants and spray coating systems. It is designed for use in both interior and exterior concrete repair applications where color stability is desired.

Ideal for Applications in:

- Repairing spalls and cracks in traffic areas
- Repairs for polished concrete
- Filling bug-holes on horizontal surfaces
- Repairing exterior and interior horizontal surfaces of concrete and masonry
- Bridge deck repairs
- Below grade repairs
- Spalled control joints
- Freezer applications
- Pool deck joints
- Occupied Spaces

Advantages:

- UV & color stable for indoor & outdoor usage
- Very low odor
- Low viscosity in neat configuration will penetrate concrete for permanent bond
- Cures in 1 hour for quick open to traffic
- Can cure in -30°F. Cure time will be extended at lower temperatures
- Self-leveling
- May be feather edged
- Good chemical & abrasion resistance

Physical Properties-

(Typical) 1:1 Mix Ratio		
Cured Film Properties	Test Method	Typical Value
Gel Time	ASTM D1640	3 - 5 minutes
Working Time	Theoretical	5 - 10 minutes
Tack Free @ 77°F	ASTM D1640	15 - 25 minutes
Grind or Polish	ASTM D1640	2 hours
Open to Traffic	Theoretical	1 hour
Tensile Strength (psi)	ASTM D638	6,100 - 6,600
Tensile Elongation (%)	ASTM D638	2 - 4
Modulus of Elasticity (kpsi)	ASTM D638	240 - 345
Tear Strength (lb./in.)	ASTM D624	590 - 675
Shore (D) Hardness	ASTM D2240	70+
Taber abrasion, mg wt. loss (1,000 g, 1,000 revs., H-18)	ASTM D4060	270 - 310
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-

- Six Hundred ML Cartridges: 300ml of 'A' side and 300ml of 'B' side packaged as a duplex cartridge. Ten cartridges per case.

Colors – View standard *ColorFlex* chart at www.versaflex.com.

Mixing- **FX Mender** is a two-component product. Before using material, thoroughly shake the cartridge for a few minutes.

Surface Preparation- Provide clean, sound, and dry concrete surface. When restoring surface integrity to existing concrete, remove loose surface material. Abrasive blast or abrade surface per ICRI Technical Guideline No. 310.2R-2013 or SSPC SP13 as required.

Application-

- Used in patching applications: holes, divots, pop outs and re-nosing of joints. May be troweled as necessary and allowed to dry.
- Please review Material Processing & Handling Information for further details. **FX Mender** is not to be used on non-porous substrates. **FX Mender** can be top coated if desired, follow proper surface preparation procedures. **FX Mender** may be mechanically abraded after approximately 2 hours.

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 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
- 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

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 of 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.