



**Canadian Induracoat Corporation**

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# Product Data Sheet

## FSS 50DM

**Spray Polyurea**

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

**Product Description - VersaFlex FSS 50DM** is a fast set, rapid curing, 100% solids, flexible, two-component polyurea elastomer spray coating material. **FSS 50DM** is used by itself or in combination with other materials to produce coatings, liners, wearing courses, and resilient surfaces on metal and other substrates. **FSS 50DM** produces an extremely tough film at all thicknesses. Single or multiple pass applications produce films from 10 mils to 1,000 mils without appreciable sag or runs. **FSS 50DM** may be applied in all positions and to any properly prepared substrate. **FSS 50DM** is inert, it will not hydrolyze, leach, or contaminate other materials, and is bondable and paintable. **FSS 50DM** is relatively moisture and temperature insensitive, allowing application in the most problematic ambient conditions.

**Uses - VersaFlex FSS 50DM** is a superior metal coating material designed specifically for industrial applications receiving constant or intermittent attack from contained materials, most corrosive substrates and abrasive action. **FSS 50DM** may be used to coat any properly prepared substrate. **FSS 50DM** is flexible, accommodating to movement of the substrate, yet strong enough to remain intact under all conditions except major structural dislocations. With or without reinforcements, **FSS 50DM** may be used in transitional areas with confidence. **FSS 50DM** may be used in interior or exterior applications. **FSS 50DM** is recommended for repair of other films, may be applied to metal and other substrates, in new construction and in cold weather conditions.

### Ideal for Applications In -

- Waterproofing Membrane
- Chemical Plants
- Secondary Containment
- Liners
- Metal Coating
- Tank Linings

### Advantages -

- Odorless, No VOC's
- 1:1 Mix Ratio by Volume
- Fast Return to Service
- Rapid Gel Time
- Installation temperature range from -40°F to 300°F
- Operating Temperatures -40°F to 350°F

### Physical Properties -

Property	Test Method	Typical Value
VOC	ASTM D3960	Zero
Solids Content		100%
Gel Time		3 -7 seconds
Tack Free		8 -12 seconds
<b>The following properties are typical after maintaining cured product at 70 – 77°F for 50 days:</b>		
Tensile Strength (psi)	ASTM D638	6,000 - 6,800
Tensile Elongation (%)	ASTM D638	280 - 360
Modulus of Elasticity (psi)	ASTM D638	2,200 - 2,800
Tear Strength (lb/in)	ASTM D624	330 - 360
Shore (D) Hardness	ASTM D2240	50
Taber abrasion, mg wt loss (1000 g, 1000 revs, H-18)	ASTM D4060	250
Resistance to cathodic disbondment in accordance with ASTM G 8, Method A		

## Coverage Rates -

Theoretical Square Feet Per Gallon

Mils	10	15	50	60	80	100	125
Sq. Ft.	160	107	32	27	20	16	13

Note: 1604 mil inches per gallon. Totally dependent on substrate texture and condition.

## Packaging -

- One Hundred Ten Gallon Kit: 55 gallons of 'A' side and 55 gallons of 'B' side. Drum containers filled by weight, volume is closely approximated.

**Mixing - FSS 50DM** must be spray applied using approved equipment. Use 1:1 ratio pump, with appropriate material heaters as required for individual application.

**Colors** - Standard color is charcoal gray, light gray, or black. Other colors available upon request. Consult **VersaFlex**.

**Shelf Life** - One year, in original, unopened factory containers under normal storage conditions of 50°F to 95°F.

**Clean Up** - Cured product may be disposed of without restriction. Excess liquid 'A' and '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 Material Safety Data Sheets at **VersaFlex.com**

Basic safety for personal protection is:

- Long-sleeve overalls or disposable Tyvex overalls
- Rubber gloves
- Respirator
- Splash shield or safety glasses with splash guards
- Do not take internally.
- Rubber or leather boots
- Do not use near high heat or open flame
- Keep out of the reach of children

**Surface Preparation and Application** – Please review the Material Processing & Handling Information for preparation and application procedures. Substrate priming is not required on all metals, consult **VersaFlex** for recommendations. Also, please consult the **VersaFlex** Spray Gun Configuration Recommendation PDF for specific modules and tips.

## 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 charges or expenses of any nature incurred without its written consent.



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