



# Product Data Sheet

## Canadian Induracoat Corporation

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## FSS 45DC-F

### Spray Polyurea

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

**Product Description - VersaFlex FSS 45DC-F** is a fast set, rapid curing, 100% solids, flexible, two-component polyurea elastomer spray coating material. **VersaFlex FSS 45DC-F** is used by itself or in combination with other materials to produce coatings, liners, wearing courses, and resilient surfaces on metal and other substrates. Its extremely fast gel time makes it suitable for applications down to -40°F, without special conditioning of the component resins and isocyanates. **VersaFlex FSS 45DC-F** 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. **VersaFlex FSS 45DC-F** may be applied in all positions and to any properly prepared substrate. **VersaFlex FSS 45DC-F** is inert, it will not hydrolyze, leach, or contaminate other materials, and is bondable and paintable. **VersaFlex FSS 45DC-F** is relatively moisture and temperature insensitive, allowing application in the most problematic ambient conditions.

**Uses - VersaFlex FSS 45DC-F** is a superior concrete and metal coating material designed specifically for industrial applications receiving constant or intermittent attack from contained materials, most corrosive substrates and abrasive action. **VersaFlex FSS 45DC-F** 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 45DC-F** may be used in transitional areas with confidence. **VersaFlex FSS 45DC-F** may be used in interior or exterior applications.

### Ideal for Applications In -

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

### Advantages -

- Odorless, No VOC's
- 1:1 Mix Ratio by Volume
- Fast Return to Service
- Installation temperature ranges from -40°F to 300°F

### Physical Properties -

Property	Test Method	Typical Value
VOC	ASTM D3960	Zero
Solids Content		100%
Gel Time		4 - 8 seconds
Tack Free		10 -15 seconds
<b>The following properties are typical after maintaining cured product at 70 – 77°F for 50 days:</b>		
Tensile Strength (psi)	ASTM D638	2,300 - 2,800
Tensile Elongation (%)	ASTM D638	580 - 650
Modulus of Elasticity (psi)	ASTM D638	300-600
Tear Strength (lb/in)	ASTM D624	360 - 390
Shore (D) Hardness	ASTM D2240	45
Taber abrasion, mg wt loss (1000 g, 1000 revs, H-18)	ASTM D4060	250

## 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 Six Gallon Kit: 53 gallons of 'A' side and 53 gallons of 'B' side. Drum containers filled by weight, volume is closely approximated.

**Mixing - VersaFlex FSS 45DC-F** 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 55°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
- < Splash shield or safety glasses with splash guards
- < Respirator
- < 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 Material Processing Information for application details. Substrate priming is not required on all substrates, 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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