



Product Data Sheet

Canadian Induracoat Corporation

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FSS 45DC

Spray Polyurea

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

Product Description - VersaFlex FSS 45DC is a fast set, rapid gelling, 100% solids, flexible, two-component polyurea elastomer spray coating material. **FSS 45DC** is used by itself or in combination with other materials to produce coatings, liners, wearing courses, and resilient surfaces on concrete and other substrates. **FSS 45DC** produces an extremely tough film at all thicknesses. **FSS 45DC** may be applied in all positions and to any properly prepared substrate. **FSS 45DC** is inert, it will not hydrolyze, leach, or contaminate other materials, and is bondable and paintable. **FSS 45DC** is relatively moisture and temperature insensitive, allowing application in the most problematic ambient conditions.

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

Ideal for Applications In -

- Industrial Facilities
- Parking Garage Decks
- Below Grade Waterproofing
- Above Grade Dampproofing
- Water and Waste Water Treatment
- Food Processing Facilities
- Pulp and Paper Mills
- Bottling and canning facilities
- Walkways and Balconies
- Secondary Containment

Advantages -

- 100% Solids, No VOC's
- Odorless, No Toxic Vapors
- Tough Elastomeric Membrane
- Excellent Thermal Stability
- Minimal Downtime
- Low Permeance Rate
- Good Resistance to a Wide Range of Chemical Attack
- USDA Approved
- Operating Temperatures -40°F to 350°F

Physical Properties -

Cured Film Properties	Test Method	Typical Value
Solids Content		100%
Shore Hardness	ASTM D2240	45D
Elongation	ASTM D638	450-520%
Tensile Strength, psi	ASTM D638	1950-2350
100% Modulus, psi	ASTM D638	960
300% Modulus, psi	ASTM D638	1450
Tear Strength, pli, Die C	ASTM D624	430
Taber abrasion, mg wt loss (1000 gms, 1000 revs, H-18 wheels)	ASTM D4060	180
Moisture Vapor Transmission, perms	ASTM E96	0.025
Gel Time		20-30 Seconds
Tack Free		90 Seconds
Light Traffic		60-120 Minutes

Limitations - FSS 45DC should not be used for direct contact with extremely high or low ph attack. Composite systems are available. Consult **VersaFlex**.

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 45DC must be spray applied using proper plural component equipment. Use 1:1 ratio pump, with appropriate material heaters, as required for individual application. For information contact **VersaFlex**.

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
- < Rubber or leather boots
- < Do not use near high heat or open flame
- < Do not take internally
- < Keep out of the reach of children

Surface Preparation and Application – Please review the Material Processing & Handling Information for application details. Substrate priming is not required on all substrates, consult **VersaFlex** for recommendations. Also, please consult the Spray Gun Configuration Recommendations 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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