

DURAFLEX F48

DURAFLEX F48 is a plural spray, pure aromatic polyurea, that features high flexibility and strength. It is especially developed with fire retardant package to stop the fire spreading. It can be used in constant water immersion service or buried underground.

DURAFLEX F48 is comprised of 100% solids. The product is VOC-free. The perfect solution for today's ecological and production challenges in waterproofing applications. A variety of colours are available upon request.

- Ideal for:**
- Roofing
 - Secondary containment
 - Truck bed liner
 - Concrete waterproofing

- Optimal substrats:**
- Concrete
 - Wood
 - Steel
 - Polyurethane spray foam
 - Expanded polystyrene

PHYSICAL PROPERTIES			
PROPERTIES	TEST METHOD	RESULTS	
Shore Hardness	ASTM D2240	45-50D	
Tensile Strenght	ASTM D412-C	3000 – 3500 PSI	20.7 – 24.1 MPa
Ultimate Elongation	ASTM D412-C	480 – 580%	
Tear Strenght	ASTM D624-C	370 – 420 PLI	64,8 – 73,5 kN/m
Abrasion	ASTM D4060 1000 cycles, 1000g, CS-17	6,9 mg	
	ASTM D4060 1000 cycles, 1000g, H-18	209.1mg	
Water Vapour Transmission (1.47mm)	ASTM E96-A	7.31 g/m ² *24h	
Permeance (perms)	ASTM E96-A	0.062 perm*inch	
Flammability	CAN/ULC S668	Pass	
Volatile liquid vapor transmission (Voltesso 35)	ASTM D814 (28d @ 40°C)	0.06 g/h*m ² (Pass)	
Tension resistance at -40°C	ASTM D412-C	4306 PSI	29.7 MPa
Maximum elongation at -40°C	ASTM D412-C	251 %	

Tested at 2,250 PSI/150°F (15 513 kPa/65°C). The properties vary depending on application parameters.

REACTIVITY PROFILE	
Gel Time	3 – 8 sec
Tack free time	10 – 15 sec
Recoating time	Maximum 4 hours

COMPONENT PROPERTIES		
PROPERTIES	ISO - Flexible	RESIN - F48
Appearance	Yellow liquid	Amber Liquid (can be tinted)
Viscosity @ 25°C	500 – 900 cps	300 – 700 cps
Specific Gravity @ 25°C	1.10 – 1.15	1.00 – 1.06
Mixing Ratio (volume)	100	100

PROCESSING INFORMATION		
Recommended spray pressure	2 000 – 2 500 PSI	13 790 – 17 236 kPa
Temperature ISO (A) & RESIN (B)	135 – 160°F	57 – 71°C
Temperature hose	135 – 160°F	57 – 71°C
Minimum recommended dry film thickness	30 mils	0.75mm
Typical dry film thickness	40 – 100 mils	1.0 - 2.5 mm
Theoretical coverage	1600 square feet per gallon at 1 mils	149 m ² per 3.78 liter at 25 microns



Genyk uses the highest-grade raw materials and state-of-the-art manufacturing facilities. The result is a durable and superior product.



Before handling these chemicals, please consult the Safety Data Sheet for the two components, that are available from Genyk.

STORAGE CONDITIONS AND HANDLING			
Additional information	ISO - Flexible		RESIN - F48
Packaging	Drum: 220kg / Tote: 1,100kg		Drum: 200kg / Totes: 1,000kg
Storage temperature	59°F - 100°F	15°C - 38°C	59°F - 100°F 15°C - 38°C
Shelf Life	12 months		12 months

Additional Information: All materials should be stored in their original containers and away from heat and moisture, especially after breaking the seal and opening the containers. Storage below the recommended temperatures may result in resin separation and/or crystalline formation for the isocyanate and increase the viscosity of the components, making them difficult to pump. Higher storage temperatures can decrease the shelf life. Both components are negatively affected by water and humidity.

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