

# DURAFLEX F46

DURAFLEX F46 is a plural component aromatic polyurea offering high performances such as fast cure application and crack-bridging properties. It can be used in constant water immersion or buried underground for application such as concrete foundation waterproofing.

DURAFLEX F46 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 colors are available upon request.

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

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

PHYSICAL PROPERTIES		
PROPERTIES	TESTING METHOD	RESULTS
Shore Hardness	ASTM D2240	43-48D
Tensile Strenght	ASTM D412-C	2800 – 3300 PSI   19.3 – 22.8 MPa
Ultimate Elongation	ASTM D412-C	500 – 600%
Tear Strenght	ASTM D624-C	380 – 430 PLI   67 – 75 kN/m
Abrasion	ASTM D4060 1000 cycles, 1000g, CS-17	8.3mg
	ASTM D4060 1000 cycles, 1000g, H-18	191.8mg
Water Vapour Transmission (1.08mm)	ASTM E96-A	10.6 g/m <sup>2</sup> *24h
Permeance (perms)	ASTM E96-A	0.067 perm*inch
Crack Brindging Ability	ASTM C1305	Pass 10 cycles @ -26°C
Watertightness (after puncture)	CAN/CGSB 37.56	5 meters – No leakage
Dynamic Impact	CAN/CGSB 37.56	Pass – No puncture
Static Puncture	CAN/CGSB 37.56	Pass – No puncture
Peel Strength	CAN/CGSB 37.58-M86	1 895 N/m
Low Temperature Flexibility	CAN/CGSB 37.58-M86	- 40°C – No track

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

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

COMPONENT PROPERTIES		
PROPERTIES	ISO - Flexible	RESIN - F46
Appearance	Yellow liquid	Amber Liquid (can be tinted)
Viscosity @ 25°C	500 – 900 cps	600 – 1200 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
Minimum spray pressure	1800 PSI	12 410 kPa
Temperature ISO (A) & RESIN (B)	135°F – 160°F	57°C – 71°C
Temperature hose	135°F – 160°F	57°C – 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 m2 per 3.78 liter at 25 microns

The physical properties decrease when applied at lower pressure than 2000 PSI. Please refer to the Duraflex processing and handling guide for more specific recommendations.



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 – F46
Packaging	Baril: 220kg / Tote: 1,100kg		Baril: 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 mois		12 mois

**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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