

DURAFLEX D70

DURAFLEX D70 is a plural spray hardcoat aromatic polyurea, that features high modulus and strength combined with outstanding waterproofing properties. It can be used in constant water immersion service or buried underground. DURAFLEX D70 contains fire retardant additive to reduce flame spread.

DURAFLEX D70 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:**
- High chemical resistance
 - Wastewater plant
 - Pipe coatings
 - Theme park (hardcoat)

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

PHYSICAL PROPERTIES			
PROPERTIES	ASTM METHOD	RESULTS	
Shore Hardness	D2240	70-75D	
Tensile Strenght	D412-C	4500 – 5000 PSI	31.0 – 33.8 MPa
Ultimate Elongation	D412-C	15 – 25%	
Tear Strenght	D624-C	420 – 490 PLI	73 – 86 kN/m
Abrasion	D4060 1000 cycles, 1000g, CS-17	42.1mg	
	D4060 1000 cycles, 1000g, H-18	356.4mg	
Water Vapour Transmission (1.77mm)	E96-A	0.736 g/m ² *24h	
Permeance (perms)	E96-A	0.0076 perm*inch	
Modulus of elasticity	D638-22	110 780 PSI	764 MPa
Compressive stress	D695-15	5307 PSI	36.6 MPa
Tangent Modulus	D790-17	105 560 PSI	728 MPa
Flexural Secant Modulus at 1%	D790-17	103 327PSI	712.6 MPa
Flexural Secant Modulus at 2%	D790-17	100 369PSI	692.2 MPa

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

COMPONENT PROPERTIES		
PROPERTIES	ISO - Rigid	RESIN - D70
Appearance	Brown liquid	Amber Liquid (can be tinted)
Viscosity @ 25°C	200 – 500 cps	600 – 1000 cps
Specific Gravity @ 25°C	1.16 – 1.21	1.01 – 1.07
Mixing Ratio (volume)	100	100

PROCESSING INFORMATION		
Recommended spray pressure	2 000 – 2 500 PSI	13 790 – 17 236 kPa
Minimum spray pressure	1 800 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 m ² 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 - Rigid		RESIN - D70	
Packaging	Drum: 220kg / Tote: 1,100kg		Drum: 200kg / Totes: 1,000kg	
Storage temperature	50°F - 100°F	10°C – 38°C	50°F - 100°F	10°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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