

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 environmental and production challenges in waterproofing applications. A variety of colours are available upon request.

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| <p>Ideal for:</p> <ul style="list-style-type: none"> • High chemical resistance • Wastewater plant • Pipe coatings • Theme park (hardcoat) | <p>Optimal substrats:</p> <ul style="list-style-type: none"> • Concrete • Steel • Polyurethane spray foam • Expanded polystyrene |
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LED BY COMMITMENT



PREMIUM PRODUCT

Genyk uses the highest-grade raw materials and state-of-the-art manufacturing facilities. The result is a robust product with industry leading properties.



SUSTAINABILITY

Duraflex D70 is formulated with a large amount of biobased raw material. Environmentally responsible behaviour is a Genyk standard.



DEDICATED SUPPORT

Genyk is proud to proclaim – We offer on-demand technical resources to our customers and offer the best experience.

PHYSICAL PROPERTIES		
PROPERTIES	TEST METHOD	RESULTS
Shore Hardness	ASTM D2240	70-75D
Tensile Strenght	ASTM D412-C	4 500 – 5 000 PSI (31.0 – 33.8 MPa)
Ultimate Elongation	ASTM D412-C	15 – 25%
Tear Strenght	ASTM D624-C	420 – 490 PLI (73 – 86 kN/m)
Abrasion	ASTM D4060 1000 cycles, 1000g, CS-17	42.1mg
	ASTM D4060 1000 cycles, 1000g, H-18	356.4mg
Water Vapour Transmission (1.77mm)	ASTM E96-A	0.736 g/m ² *24h
Permeance (perms)	ASTM E96-A	0.0076 perm*inch

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

COMPONENT PROPERTIES		
Properties	ISO - Rigid	D70 Resin
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
Shelf Life	12 months	12 months
Mixing Ratio (volume)	100	100

PROCESSING INFORMATION	
Minimum spray pressure	2 000 PSI (13 790kPa)
Temperature ISO (A)	135 – 160°F (57 – 71 °C)
Temperature 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)

Please refer to the Duraflex processing and handling guide for the application guidelines.



DURAFLEX ISO - RIGID is supplied in 220 kg drums and 1 100 kg totes. DURAFLEX D70 resin is supplied in 200 kg drums and 1 000kg totes.



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

STORAGE CONDITIONS AND HANDLING

All materials should be stored in their original containers and away from heat and moisture, especially after the seals have been broken and the containers have been opened. Shelf life is 12 months for the resin and 12 months for the isocyanate when stored indoors at a temperature between 60°F (15°C) and 100°F (38°C). Storage below 50°F (10°C) may result in compound stratification of the B and/or crystalline formation in the A component. Temperatures above the maximum storage temperatures may decrease the shelf life. Temperatures below 60°F (15°C) will increase the viscosity of the components making them difficult to pump. Both components are adversely affected by water and humidity.

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