

Baytec® SPR-055D

Polyurethane (Polyether, MDI)

Covestro - PUR

Message:

Baytec SPR-055D is a two-component, 100%-solids thick film coating spray system with a Shore D hardness of 55*. The isocyanate component is a modified diphenylmethane diisocyanate (MDI) prepolymer, and the B component is a polyether polyol amine blend. The system has added UV stabilizers and is used to protect concrete and steel structures in heavy duty industrial environments from corrosion, abrasion and weathering. The system is unpigmented and can be custom colored.

Typical applications include wastewater infrastructure, primary and secondary containment, pipes, truckbeds, mining and other industrial surfaces. As with any product, use of the Baytec SPR-055D system in a given application must be tested (including field testing, etc.) in advance by the user to determine suitability.

General Information			
Additive	UV stabilizer		
Uses	Protective coating		
	Industrial application		
	Pipeline coating		
	Coating application		
Appearance	Natural color		
Forms	Liquid		
Processing Method	Sprayable		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.998	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	55		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles, 1.0E 6g, H-18 wheel)	125	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	16.8 - 18.2	MPa	ASTM D412
Tensile Elongation (Break)	100 - 120	%	ASTM D412
Tear Strength ¹	47.3 - 52.5	kN/m	ASTM D624
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Component a	Mixing ratio by capacity: 100		
Component B	Mixing ratio by capacity: 100		
Shelf Life (25°C)	26	wk	
Additional Information	Nominal Value	Unit	Test Method
Permeability - 30 days	0.0700	perm · in	ASTM E96
Tear Strength, Split	14.0 - 16.5	kN/m	ASTM D1938

Part A

Type: Isocyanate

Appearance: Yellowish liquid

Specific Gravity @ 25°C: 1.13

Viscosity @25°C: 600 mPa-s

Flash Point PMCC: 216 °C

Part B

Type: Polyol

Appearance: Cream

Specific Gravity @ 25°C: 1.03

Viscosity @25°C: 508 mPa-s

Flash Point PMCC: 179 °C

Molding Parameters

Material Temperature: 66 to 80 °C

Gel Time: 9 to 12 sec

Tack-Free Time: 30 sec

Handling Time: 30 min

NOTE

1. C mould

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