TriFLEX®

TECHNICAL DATA SHEET

**This Technical Data Sheet supersedes those previously issued.*

DESCRIPTION

TriFLEX® is a high-performance, triple-resin, direct-to-metal coating system that combines polyurethane and polyaspartic resins modified with a proprietary polymer resin blend. Engineered for demanding exterior applications, this advanced formulation delivers exceptional weathering resistance, long-term color and gloss retention, and robust mechanical performance to maintain a durable, high-quality finish under tough service conditions.

TECHNICAL DATA



Color	Grey (RAL 7035) Black (RAL 9005) White (RAL 9010) other colors available to minimum order quantity	
Type	High Solids DTM	
Solids Content	84% by volume	
Finish	Gloss	
VOC	As supplied	Grey / White 151 g/l (1.26 lb/gal) Black 158 g/l (1.32 lb/gal)
	Thinned to max level	Grey / White 195 g/l (1.63 lb/gal) Black 230 g/l (1.92 lb/gal)

SUBSTRATE & SURFACE PREPARATION

General	Clean to remove all contaminants in accordance with SSPC-SP 1. Substrate must be clean and dry.
Steel Substrate	Abrasive blast clean to a minimum NACE No. 3 / SSPC-SP 6 / ISO Sa 2 with a minimum of 2 mils (50 microns) anchor profile that is sharp and angular for maximum adhesion.
Stainless Steel	All surfaces to be coated shall be abrasively blast cleaned to SSPC-SP 16 with a 2-4 mil (50-100 microns) blast profile.
Concrete	All general surface preparation should adhere to SSPC-SP 13 / NACE No. 6. The abrasively blasted surfaces shall result in an anchor pattern of CSP3 to CSP5 anchor profile as compared to the ICRI Concrete Surface Profile Chips.

MIXING & THINNING

Mixing	All coating kits are supplied at the proper mix ratio and should be mixed in their entirety. Mix Part A resin for approximately 2–3 minutes until color and consistency is uniform. Mix Part B catalyst until thoroughly homogeneous. Slowly add Part B catalyst to Part A and mix thoroughly for approximately 2 minutes.
Ratio	Five gallon kit Part A: 4.0 gallons (15.14 liters) | Part B: 1.0 gallons (3.79 liters) *Product also supplied in 55 gallon drums and 250 gallon totes.
Thinning	MEK, MAK, or n–butyl acetate, up to 5% (by volume). Black may require additional thinning up to 10% (by volume).
Pot Life	75 minutes at 77ºF (25ºC) 60 minutes at 86ºF (30ºC)

APPLICATION GUIDELINES

Equipment Type	Coating should be applied via airless spray equipment pump size 45:1 or greater or by PC equipment at a 4:1 (by volume) mix ratio - OR - Conventional spray (30:1), additional thinning may be required. *Contact APC Technical Service for additional information
Dry Film Thickness (Total system thickness)	Average: 6-8 mils DFT (150-200 microns) Minimum: 5 mils DFT (125 microns) Maximum: 16 mils DFT (400 microns) *Refer to the aplicaiton guide for specific application guidelines
Theoretical Coverage	At 1 mil: 1347 ft^2 / gallon (25 microns) At 6 mils: 224 ft^2 / gallon (150 microns) At 8 mils: 168 ft^2 / gallon (200 microns) *Allow for loss in mixing and application At 1 mil: 33 m^2 / liter (25 microns) At 6 mils: 5.4 m^2 / liter (150 microns) At 8 mils: 4.1 m^2 / liter (200 microns) *Allow for loss in mixing and application
Dry to Touch	2 hours at 77ºF (25ºC)
Full Cure	4 days at 77ºF (25ºC) or 1 hour at 130ºF (54ºC)
Recoat Window	Minimum recoat window is 3 hours at 75ºF (24ºC). Contact APC Technical Services for recoat window parameters at other elevated temps. Overcoat Window: There is a 12 month window where TriFLEX® can be applied after cleaning the surface with MEK or acetone.

APPLICATION CONDITIONS

Material	55ºF (13ºC) – 90ºF (32ºC)
Substrate	40ºF (5ºC) – 140ºF (60ºC)
Humidity	10% – 90%

CLEAN-UP & SAFETY

Clean-up	TriFLEX® can be cleaned up with MEK, MAK, n–butyl acetate, or acetone. Note: TriFLEX® can potentially gel up if not properly cleaned. This can be avoided by ensuring equipment is properly cleaned after each use and keeping Part B tightly sealed and the hopper empty or tightly sealed after each use.
Safety	Consult SDS

PACKAGING, HANDLING & STORAGE

Shelf Life	12 months
Storage	40ºF – 110ºF (4ºC – 43ºC) | 0 – 100% RH ***Keep Part B sealed tightly. If opened reseal completely.***

Information on TDS documents represent typical data for the mixed coating formulation (part A + part B) using 'as supplied' materials as of the date hereof. All information is correct to the best of our knowledge. Values should not be construed as specifications. Please contact Advanced Polymer Coatings' Technical Service Team if you have any questions related to this data sheet or application.

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ADVANCED POLYMER COATINGS