



FD740 FAST DRY ALKYD

DESCRIPTION AND USES

The FD740 Fast Dry Alkyd is a modified, short-oil alkyd that has been formulated specifically to meet a VOC limit of 250 g/l. FD740 dries to the touch in less than 20 minutes while delivering resistance to corrosion and abrasion. It is designed to be applied by spray, brush, or roll on interior surfaces in mild to moderate industrial environments. FD740 is designed to be applied direct-to-metal, however optimal corrosion protection is achieved when the finish coat is used in conjunction with one of the recommended primers. Not for use on galvanized metal.

PRODUCTS

HIGH GLOSS

1-Gallon	5-Gallon	DESCRIPTION
201107	201303	Black
201120	----	Safety Yellow
201121	----	Safety Orange
201125	----	Safety Red
201127	----	Safety Blue
201128	----	Safety Green
201129	----	Dunes Tan
201131	----	Navy Gray
201136	----	Silver Gray

TINT BASE MAXIMUM COLORANT

1-Gallon	5-Gallon	DESCRIPTION
8 oz.	40 oz.	Light Tint Base
12 oz.	60 oz.	Deep Tint Base
16 oz.	80 oz.	Masstone Tint Base

RECOMMENDED PRIMERS

Rust-Oleum® High Performance V7400 Quick Dry Primers

SKU	DESCRIPTION (Gallon)
2082402	Light Gray Primer
2068402	Red Primer

PRODUCT APPLICATION

SURFACE PREPARATION

ALL SURFACES: (SSPC-SP-1) Remove all dirt, grease, oil, salt and chemical contaminants by washing the surface with Krud Kutter® Original Cleaner/Degreaser, commercial detergent or other suitable cleaner. Mold and mildew must be cleaned with a chlorinated cleaner or bleach solution. Rinse thoroughly with fresh water and allow to fully dry. All surfaces must be dry at time of application.

PRODUCT APPLICATION (cont.)

SURFACE PREPARATION (cont.)

STEEL: Hand tool (SSPC-SP-2) or power tool (SSPC-SP-3) clean to remove loose rust, mill scale, and deteriorated previous coatings.

PREVIOUSLY COATED: Previously coated surfaces must be sound and in good condition. Smooth, hard, or glossy finishes should be scarified by sanding to create a surface profile. The FD740 Fast Dry Alkyds are compatible with most coatings, but a test patch is suggested.

APPLICATION

Apply only when the air and surface temperatures are between 32-100°F (0-38°C) and the surface temperature is at least 5°F (3°C) above the dew point. The relative humidity should not be greater than 85%.

The dry times published on page 3 are under conditions of 77°F (25°C) and a relative humidity of 50%. At lower temperatures, the dry times will be increased and the full development of the coating's physical properties will take longer. Improved air flow will aid the curing process when temperatures are below 50°F or the relative humidity is greater than 80%.

EQUIPMENT RECOMMENDATIONS

(Comparable equipment also suitable)

BRUSH: Use a good quality natural or synthetic bristle brush.

ROLLER: Use a good quality lamb's wool or synthetic fiber.

AIR-ATOMIZED SPRAY

Method	Fluid Tip	Fluid Delivery	Atomized Pressure
Pressure	0.055-0.070	10-16 oz./min.	25-60 psi
Siphon	0.055-0.070	--	25-60 psi
HVLP (var.)	0.043-0.070	8-10 oz./min.	10 psi (at tip)

AIRLESS SPRAY

Fluid Pressure	Fluid Tip	Filter Mesh
1,600-2,400 psi	0.013-0.017	100

THINNING

BRUSH/ROLLER: Normally not required. When necessary, thin with 633402 Mineral Spirits Thinner.

AIR ATOMIZED SPRAY: Up to 10% with 333402 Acetone Thinner.

AIRLESS SPRAY: Up to 10% with 333402 Acetone Thinner.

PRODUCT APPLICATION (cont.)**CLEAN-UP**

333402 Acetone Thinner or 633402 Mineral Spirits Thinner.

PERFORMANCE CHARACTERISTICS**ADHESION BY TAPE TEST**

METHOD: ASTM D3359-17
SUBSTRATE and RESULT:

Aluminum - 4A
Steel - 4A

CYCLIC PROHESION

Rating 1-10, 10=best

METHOD: ASTM D714-02, 1008 hours
RESULT: Rusting - 8, Blistering - 10 (2.2 DFT - average)

IMPACT RESISTANCE

METHOD: ASTM D2794-93 (2010)
RESULT: @ 2 weeks 16 In. lbs.
@ 2 months 8 In. lbs.

GLOSS

METHOD: ASTM D4587 (60°)
RESULT: 96% (White)

PENCIL HARDNESS

METHOD: ASTM D3363
RESULT: B

TABER ABRASION

METHOD: ASTM D4060, CS-17 Wheels, 500 gram load,
1000 cycles
RESULT: 165.9 mg loss

ALKYD	TECHNICAL DATA	RO-163
RUST-OLEUM HIGH PERFORMANCE INDUSTRIAL COATINGS	FD740 FAST DRY ALKYD	

PHYSICAL PROPERTIES

		FD740 FAST DRY ALKYD
Resin Type		Modified Alkyd, Hydrocarbon
Pigment Type		Varies with color
Solvents		Halogenated and Aliphatic Hydrocarbons
Weight	Per Gallon	9.4-11.2 lbs.
	Per Liter	1.0-1.4 kg
Solids	By Weight	46-60%
	By Volume	48-56%
Volatile Organic Compounds		<250 g/l
Recommended Dry Film Thickness (DFT) Per Coat		1.5-2.5 mils (37.5-62.5µ)
Wet Film to Achieve DFT		3.0-5.0 mils (75.0-125µ)
Practical Coverage at Recommended DFT (assumes 15% material loss)		260-510 sq. ft./gal. (6.38-12.5 m ² /l)
Dry Times at 77°F (25°C) and 50% Relative Humidity	Touch	20 minutes
	Handle	1-3 hours
	Recoat	Before 2 hours and after 96 hours (4 days)*
Dry Heat Resistance		212°F (100°C)
Flash Point		Varies with color 105-110°F (40-43°C)
Shelf Life		5 years
Safety Information		For additional information, see SDS

Calculated values are shown and may vary slightly from the actual manufactured material.

*Same day recoat must occur after product is dry to touch and before two hours has elapsed. If this recoat window is missed, then coating must cure for 4 days before recoating can be attempted.

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