Tyfo® U
Finish Coat

DESCRIPTION
Tyfo® U complies with SCAQMD Rule 11 13. It is a unique, high-solids, high-build, multifunctional coating. High-gloss, self- priming coating. Excellent gloss retention. Direct to metal and concrete in selected environments. Outstanding abrasion, reverse and direct impact resistance. Good chemical and stain resistance. Tough and flexible coating.

Tyfo® U displays high gloss and excellent color and gloss retention during extended service periods. The direct-to-metal capabilities of Tyfo® U provide a single-coat system at reduced installation cost for use in protected environments.

Compatible over prepared, smooth cold-rolled steel and abrasive blasted hot-rolled steel. Tyfo® U has excellent adhesion to concrete providing a durable, glossy, easy-to-clean flooring system. May be used as a durable, weather-resistant topcoat for extra heavy duty service; over zinc-rich epoxy coatings as a direct topcoat; over intact, old paint as a maintenance product. A full color range is available.

TYPICAL USES
OEM heavy equipment
Structural steel
Bridges Stadiums
Tanks
Piping
Industrial plants
Power Wastewater treatment
Pulp and paper Chemical and petrochemical
Food and beverages
Transportation
Rail car exterior and hopper lining
Vehicle equipment - buses, trucks, lifts
Marine
Decks - Topside and superstructures on ships
Boottops - Barges and offshore platforms
Concrete walls and floors
The replacement of lead-based pigments with lead-free pigments in these colors.
Components 2
Curing mechanism Solvent release and chemical reaction
Volume solids (ASTM D2697 modified)
73% + 3%
Dry film thickness per coat 5 mils (125 microns)
Coats 1
Theoretical coverage ft^2/gal m^2/L
1 mi1 (25 microns) 1171 29
5 mils (125 microns) 234 5.7
VOC (EPA Method 24) lb/gal 1.4&/L
mixed 170
mixed/thinned (1 ptlgal) 1.9 231

Temperature resistance (dry)	°F	°C
continuous	200	93
intermittent	250	121
Flash point (SETA)	°F	°C
cure	122	50
resin	112	44
mixed	116	47

TYPICAL PROPERTIES
Physical
Impact resistance (ASTM D2794) @ 5 mils
direct 140in.Lbs 15.8N.m
reverse 50 in. lbs 5.6N.m
Chemical Resistance Guide

Environment	Splash & Spillage	Fumes & Weather
Acidic	E	E
Alkaline	E	E
Salt solutions		
Acidic	E	E
Neutral	E	E
Alkaline	E	E
Seawater	E	E
Fresh water	E	E
Solvents	G	E
Petroleum products	E	E

F-Fair G-Good E-Excellent
NR-Not Recommended

This table is only a guide to show typical resistance of Tyfo® U. Contact your Fyfe Co. LLC representative for your particular corrosion protection needs.

Typical Systems

Substrate	Primer*	Finish Coat
Steel	none	Tyfo® U
Galvanizing	none	Tyfo® U
Aluminum	none	Tyfo® U
Concrete		Tyfo® U
Masonry	none	Tyfo® U

*Other epoxy primers are also acceptable. Refer to specific primer's product data sheets and application instructions for detailed application and surface preparation information. Apply test patch to intact coating to confirm compatibility and adhesion.

ENVIRONMENTAL CONDITIONS

Temperature air or surface	°F	°C
Tyfo® U	40 to 120	4 to 49

Surface temperature must be at least 5°F (3°C) above dew point to prevent condensation.

APPLICATION DATA
Applied over prepared or primed steel, aluminum, galvanizing, masonry and primed concrete.

Surface preparation
steel SSPC-SP 6 or 10
aluminum prep or light abrasive blast
galvanizing - light abrasive blast
concrete - See specific primer
masonry - ASTM D4261
previously coated surface - SSPC-SP1,3 or 7

Appearance will vary depending on substrate and application method.

Mixing ratio (by volume) 1 part cure to 4 parts resin.

Pot life (hours)	°F/°C			
	90/32	70/21	50/10	32/0
Tyfo® U	1%	2%	5	-

Environmental Conditions

Temperature-Air or surface	°F	°C
Tyfo® U	40 to 120	4 to 49

Surface temperatures must be at least 5°F (3°C) above dew point to prevent condensation.

Drying time (ASTM D1640) (hours)

	°F/°C			
	90/32	70/21	50/10	32/0
touch	1	2 1/2	4	-
through	5	10	72	-

Recoat time (hours)

	°F/°C				
	90/32	80/26	70/21	50/10	32/0
minimum	4	5 1/2	8	48	-
maximum	12	24	168	168	-

Drying times are dependent on air and surface temperatures as well as film thickness, ventilation and relative humidity. Maximum recoating time is highly dependent upon actual surface temperatures - not simply ambient air temperatures. Surface temperatures should be monitored especially with sun-exposed or otherwise heated surfaces. Higher surface temperatures shorten the maximum recoat window.
Roughen surface or use a surface roughener if maximum recoat time is exceeded.
Equipment cleaner - Thinner
Adhere to all application instructions, precautions, conditions and limitations to obtain the maximum performance. For conditions outside the requirements or limitations described, contact your Fyfe Co. LLC representative.

SHIPPING LABELS CONTAIN

- State specification number with modifications, if applicable
- Component designation
- Type, if applicable
- Manufacturer's name
- Date of manufacture
- Batch name
- State lot number, if applicable
- Directions for use
- Warnings or precautions required by law

KEEP CONTAINER TIGHTLY CLOSED.
NOT FOR INTERNAL CONSUMPTION.
CONSULT MATERIAL SAFETY DATA SHEET (MSDS) FOR MORE INFORMATION.
KEEP OUT OF REACH OF CHILDREN.
FOR INDUSTRIAL USE ONLY.

Fyfe Co. LLC

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