

Polyglass Edge

Technical Data Sheet (TDS)

Product Description

Polyglass Edge is a two component, highly cross-linked, high performance, polyester polyurethane coating providing a high gloss surface finish.

Product features:

- Fast dry for improved throughput
- Outstanding chemical resistance
- Outstanding abrasion resistance
- Outstanding impact resistance
- Excellent color retention
- Solid colors only

Recommended Uses

Polyglass Edge is intended for industrial applications, either new build or maintenance. It is suitable for application on all Endura primers.

Industries:

- Oilfield & Energy Services
- Cranes and Construction Equipment
- Waste and Recycling Industry
- Trailers and Rolling Stock

Product Characteristics

Gloss: High: 90+ GU at 60°	
Slight gloss variations will occur depending on color.	
Volume Solids Mixed: (Unreduced) CLRE12814: FUB0300 (3:1)	41% ± 4%
Volume solids will vary by color.	
Pot Life: (77°F (25°C) and 50% RH)	1-3 Hours
Pot life is reduced when Super Catalyst II is used.	
VOC Mixed (Unreduced): EPA Method 24 CLRE12814: FUB0300 (3:1)	484 g/l 4.043 lb. /gal
VOC content will vary with each color	
Shelf Life: For unopened product (77°F (25°C))	
Component A	3 years
Component B	2 years

Surface Preparation

Polyglass Edge can be applied over all Endura primer sealers and primer surfacers without sanding during their topcoat window. The topcoat window varies with each primer; see the relevant primer technical data sheet for the specific topcoat window data.

If the primer topcoat window has been surpassed; the primer should be sanded with 240 – 280 grit sandpaper to achieve inter-coat adhesion. All sanding dust must be blown off prior to application of the topcoat.

Mix Ratio

3 parts by volume of component A [**CLREXXXXX**]
 (Part Number varies with color)
 1 part by volume of component B [**FUB0300**]

The recommended temperature when mixed is 68-77°F (20-25°C).

Application Method

Polyglass Edge can be applied using most spray-painting systems.

Ensure that any solvent absorbent primer surfacers are properly sealed with a primer sealer prior to application of the topcoat.

Solid Colors:

Apply two single wet coats allowing up to 30 minutes flash time between coats. It is recommended that a thinner first coat be applied at 1.5 – 2.0 mils wet, followed by a second wet coat of 2.0 - 3.5 mils wet. Allow up to 30 minutes between coats.

Spray Gun Setup			
Feed Type	Fluid Tip	Application Pressures (heel of gun)	Fluid Delivery
Siphon Feed	1.6-1.8 mm	40-50 psi	
Gravity Feed	1.6-1.8 mm	30-40 psi	
Pressure Feed	1.0-1.8 mm	50-60 psi	10-14 oz/min
Air Assist Airless	9-17 Thou	1,000-1,800 psi	
Airless	11-13 Thou	1,700-3,000 psi	

Suggested Viscosity Ranges Ford 4 Viscosity Cup at 68°F (20°C)	
Airless	20 - 22 secs
Air Assist Airless	18 - 21 secs
Conventional	17 – 19 secs

Spraying viscosity and thinning will depend on ambient conditions, spray equipment used, and the desired surface finish.

If required, recommended spraying viscosity is achieved by reducing with one of the desired Endura topcoat thinner/reducer.

FTH0086 – EX-2C Thinner / Reducer
 FTH0090 – Slo EX-2C Thinner /Reducer
 FTH0014 – Medium Topcoat Reducer

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Film Build

Polyglass Edge recommended film thickness:

Wet: WFT Unreduced	3.5 – 6.0 mils	89 – 152 microns
Dry: DFT	1.5 – 2.5 mils	38 – 63 microns

Poor hiding colors film build may be higher.

Theoretical coverage at 1.0 mil (25 microns). Average DFT: 657 ft² per gallon at 100% transfer efficiency.

Dry Times

	68°F(20°C)	86°F(30°C)	104°F(40°C)
Dust Free	30 Minutes	20 Minutes	10 Minutes
Full Cure	7 Days	5-6 Days	3-4 Days

Dry Times are subject to ambient conditions (temperature and humidity), good airflow and film build of the topcoat.

For best results, surface temperature must be 86°F (30°C) or less before topcoating. Maximum re-coat window without sanding is 16 hours at 68°F (20°C). After 16 hours Polyglass Edge must be sanded to achieve inter-coat adhesion. Mechanical sanding with 220 – 320 grit is recommended before application of topcoat.

Ensure that no more than three coats of paint are applied in a 12-hour shift. This includes primer, mid-coat, topcoats and clear coat. If more than 3 coats have been applied, wait 10-12 hours to allow for proper solvent evaporation.

The use of Super Catalyst II with Endura topcoats will accelerate drying times.

For questions about scheduling please contact your Endura Representative.

Clean Up

Clean all equipment immediately after use with Endura High Strength Gun Wash, or Endura EX-2C thinner.

Follow manufacturer's safety recommendations when using any solvent.

Ordering Information (sizing)

Component A part numbers vary by color.

Polyglass Edge		1 mixed gallon (3.78l)
Comp A	CLREXXXX-033	3 quarts (2.84l)
Comp B	FUB0300-020	1 quart (946 ml)

Polyglass Edge		4 mixed gallons (15.1 l)
Comp A	CLREXXXX-053	3 gallons (11.34l)
Comp B	FUB0300-030	1 gallon (3.78l)

Other custom sizes may be available.

Environmental Conditions

For optimum coating performance, product, substrate and ambient temperature should be between 68°F-77°F (20°C-25°C). To prevent condensation during application the surface temperature must be 5°F (3°C) or more above the dew point at all times.

For use outside this range please contact your Endura Representative.

Specifications

Hardness	ASTM D3363	H – 2H
Solvent Resistance	ASTM D4752	50 MEK Rubs; No Failure
Abrasion Resistance (1000 cycles CS-17)	ASTM D4060	30-40 mg loss
Impact resistance	ASTM D2794	100 in. lbs; NO failure
Flexibility	ASTM D522	1/8 in. mandrel bend: NO failure
Service Temp	-40°F to 360°F	-40°C to 182°C

Safety Precautions

Please refer to all Safety Data Sheets (SDS) before using this product. SDS sheets can be found on our website at www.polyglasscoatings.com.