

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.

Polyglass Edge is suitable for application on all Endura primers.

Industries:

- Oilfield & Energy Services
 - Well Service Vehicles
 - Drilling
 - Tanks
 - Pipeline
- Cranes and Construction Equipment
- Waste and Recycling Industry
 - Garbage Trucks
- Trailers and Rolling Stock

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).

Product Characteristics

Gloss: High Gloss 90+ GU at 60 deg.

Volume Solids Mixed: 47 ± 4%
(Depending on color)

Pot Life: 1-3 Hours at 77°F (25°C) and 50% RH

Note: Pot life is reduced when Supercat II is used

VOC Mixed (Unreduced): (EPA Method 24):

White 120: 391 g/l (3.264 lb /gal)

VOC content will vary with each color

Shelf Life:

Component A: 3 years at 77°F (25°C)

Component B: 2 years at 77°F (25°C)

Note: For unopened product

Surface Prep

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.

Application Method

Polyglass Edge can be applied using most spray painting systems.

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

Solid Colors:

Apply one to two single wet coats allowing up to 30 minutes flash time between coats.

It is recommended that a thinner first coat be applied 1.5 – 2.0 mils wet, followed by a wet coat of 2.0 - 3.5 mils wet. Allow up to 30 minutes between coats.

Polyglass Edge

Technical Data Sheet (TDS)

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	1.3-1.4 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	1,700-2,000 psi	

Spray Viscosity

Using a Ford 4 Cup (White)

15 Seconds*	Reduce as necessary*
←	→
Conventional	Airless

Note: 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

Film Build

Polyglass Edge has a recommended film build thickness of:

- Wet (unreduced): 3.0 – 5.5 mils wet (75 – 138 microns)**
- Dry: 1.5 – 2.5 mils DFT (38 – 64 microns)**

Note: With poor hiding colors film build may be higher

Theoretical coverage at 1.0 mil (25 microns)
Average DFT: 750 ft² per gallon at 100% transfer efficiency.

Dry Times

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

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

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

Clear coat application time:

Solid colors: 1-3 hours

Note: The recoat or clear coat times are based on based on 70°F and 50% RH and recommended film build.

For best results surface temperature must be 86°F (30°C) or less before topcoating.

Maximum re-coat window without sanding is 16 hrs at 68°F (20°C). After 16 hours Polyglass Edge topcoat must be sanded to achieve inter-coat adhesion.

Recommended 400 – 600 grit mechanical sanding before topcoating.

Important Note: 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.

For questions about scheduling please contact your Endura representative.

Polyglass Edge

Technical Data Sheet (TDS)

Clean Up

Clean all equipment immediately after use with Endura high strength gun wash, Endura epoxy reducer or Endura EX-2C thinner. Follow manufacturer's safety recommendations when using any solvent.

Ordering Information (sizing)

Available in Gallons and 5 Gallon Pails
 Other custom sizes may be available.

1 Gallons		
Comp A Part numbers vary by color	CLREXXXX-033	3 Qt.
Comp B	FUB0300-020	1 Qt.

4 Gallons		
Comp A Part numbers vary by color	CLREXXXX-050	3 Gal.
Comp B	FUB0300-030	1 Gal.

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.

Note: For use outside this range please contact your Endura Representative.

Environmental Conditions

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
Adhesion Cross Cut	ASTM D3002	5 (100/100)
Impact resistance	ASTM D2794	40 in. lbs; NO failure
Service Temp	-40°C to +182°C -40°F to 360°F	

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