

Endura EX-2C Concrete

Technical Data Sheet (TDS)

Product Description

Endura EX-2C Concrete Topcoat is a two component highly cross-linked, high performance polyurethane for coating concrete floors.

Product features:

- Outstanding resistance to chemicals, abrasion & impact
- Excellent protection against acids and alkalis
- Available in solid colors
- Available in medium and low gloss
- Easy clean surface
- Can be rolled or sprayed

Recommended Uses

Endura EX-2C Concrete Topcoat is intended for industrial applications; either new build or maintenance.

EX-2C Concrete Topcoat is extremely durable and abrasion resistant making it ideally suited ideally suited for the following applications.

Industries:

- Industrial Warehouse Floors
- Garage Floors
- Automotive Shop Floors
- Aircraft Hanger Floors
- Chemical Plant Floors

Mix Ratio

Roller Application:

2 parts by volume of component A [CLRXXXXX]
(Part Number varies with color)
1 part by volume of Special component B [FUB0101]

Spray Application:

1 part by volume of component A [CLRXXXXX]
(Part Number varies with color)
1 part by volume of component B [FUB0100]

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

Product Characteristics

Gloss: Semi-Gloss 60-80 GU at 60 deg.

Note: Slight gloss variations will occur depending on color

Note:

Lower gloss levels of EX-2C Concrete Topcoat are available

Volume Solids Mixed:

Using Comp B FUB0100: 53 ± 4% (depending on color)
Using Comp B FUB0101: 71 ± 4% (depending on color)

Pot Life: 8-10 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):

White120CC: Comp B FUB0100: 414 g/l (3.461 lb /gal)

White120CC: Comp B FUB0101: 259 g/l (2.164 lb /gal)

Note: VOC content will vary with each color and component B utilized.

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

EX-2C Concrete Topcoat 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. If large imperfections exist after primer coat use 120-150 grit sandpaper to remove them. Use a vacuum cleaner to remove all dust from the surface.

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Application Method

Spray Application:

EX-2C Topcoat can be applied using most spray painting systems.

Roller Application:

Application Equipment: Use a short (1/8") pile roller.

For areas over 1000 sq. ft. use a squeegee to spread out the EX-2C Concrete Topcoat then back roll with the short pile roller.

Pour 1 Quart of the mixed EX-2C Concrete Topcoat onto the floor and roll it out to the desired coverage: between 50-100 sq. ft. (4.7 sq. m – 9.3 sq. m).

Note:

DO NOT apply when the surface is less than 3°C (5°F) above the dew point.

Refer to the Epoxy/Urethane Concrete Coating system Application Guide for complete instructions.

Spray Viscosity

Using a Ford 4 Cup (White)	
22-23 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

Endura EX-2C Topcoat has a recommended film build thickness of:

Wet: (unreduced) Spray: 4.0 – 6.0 mils
(89 – 140 microns)

Dry: 2.0 – 3.0 mils DFT (37.5 – 62.5 microns)

Note: With poor hiding colors film build may be higher

Practical coverage: approximately 100-150 ft² per quart

Theoretical coverage at 1.0 mil (25 microns)

Average DFT is: 950 ft² per gallon at 100% transfer efficiency.

Dry Times

	68°F (20°C)	86°F (30°C)	104°F (40°C)
Dust Free	2 Hours	1 Hour	30 Minutes
Full Cure	14 Days		

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

Time prior to Walk on: 24 Hours

Time prior to Heavy Traffic: 4 Days

For questions about scheduling please contact your Endura representative.

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.

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Ordering Information (sizing)

Available in Gallons and Pails.

Other custom sizes may be available.

SPRAY:

2 Gallons		
Comp A Part numbers vary by color	CLRXXXXX-030	1 Gal
Comp B - Spray	FUB0100-030	1 Gal

10 Gallons		
Comp A Part numbers vary by color	CLRXXXXX-050	5 Gal.
Comp B - Spray	FUB0100-050	5 Gal

ROLLER:

3 Gallons		
Comp A – 2X Part numbers vary by color	CLRXXXXX-030	1 Gal.
Comp B - Roller	FUB0101-030	1 Gal.

15 gallons		
Comp A – 2X Part numbers vary by color	CLRXXXXX-050	5 Gal
Comp B - Roller	FUB0101-050	5 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.

Specifications

Hardness	ASTM D3363	2H
Solvent Resistance	ASTM D4752	100 MEK Rubs; No Failure
Abrasion resistance (1000 cycles CS-17)	ASTM D4060	32 mg loss
Impact resistance	ASTM D2794	40 in. lbs; NO failure
Flexibility	ASTM D522	1/8 mandrel bend: NO failure

Safety Precautions

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