

EX-2C C.C. Topcoat Concrete Floors

Technical Data Sheet (TDS)

Product Description

EX-2C C.C. 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

Recommended Uses

EX-2C C.C. Topcoat is intended for industrial applications, either new build or maintenance. EX-2C C.C. Topcoat is extremely durable and abrasion resistant making it 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**]
2 parts by volume of Xylene (Xylol) [**FTH0022**]

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

Product Characteristics

Gloss:	High: 60-80 GU at 60°
Slight gloss variations will occur depending on color. Lower gloss levels of EX-2C C.C. Topcoat are available	
Volume Solids Mixed: (Unreduced) Roll CLR28248:FUB0101 (2:1)	68% ± 4%
Volume solids will vary by color	
Pot Life: (77°F (25°C) and 50% RH)	8-10 Hours
Note: Pot life is reduced when Super Catalyst II is used	
VOC Mixed (Unreduced): EPA Method 24 CLR28248:FUB0101 (2:1)	280 g/l 2.338 lb /gal
VOC content will vary with each color.	
Shelf Life:	
Component A	3 years
Component B	2 years
For unopened product (77°F (25°C))	

Surface Preparation

EX-2C C.C. Topcoat can be applied over EP HiBuild Primer. Sanding of the EP HiBuild Primer is not normally required before application of the EX-2C C.C. if it is applied within the maximum recoat window of 24 Hours.

If the primer coat is left more than 24 hours, it must be sanded with 180 – 220 grit to achieve intercoat adhesion.

Prior to applying the topcoat ensure that the surface is free of flaws, nibs, or imperfections. If large imperfections exist in the primer coat use 120-150 grit sandpaper to remove them. Use a vacuum cleaner to remove all dust from the surface.

Refer to the Concrete Floor Coating System Guide for complete instructions.

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Application Method

Application Equipment for Concrete Floors:

A short (1/8") pile roller should be used. A squeegee may be used for initial spreading, and then the product should be rolled.

The floor temperature should not be lower than 7°C (45°F) or higher than 30°C (86°F). Coating the surface above or below normal conditions will decrease or increase the length of drying time, respectively.

The EX-2C C.C Topcoat should be applied in 2 thinner coats to achieve the desired film build and avoid solvent entrapment.

STEP 1:

Pour 1 quart (0.95 liter) of mixed EX-2C C.C. topcoat color onto the EP HiBuild and roll it out to approximately:

140 - 200 square feet (13.6 - 18.6 sq. m./liter).
Allow 4 hours dry between coats.

STEP 2:

After the dry time:
Pour 1 quart (0.95 liter) of the mixed EX-2C C.C. Topcoat color onto the first coat of EX-2C.C. and roll out to approximately:

140 - 200 square feet (13.6 - 18.6 sq. m./liter).

The EX-2C C.C. topcoat color will still be soft after 4 hours dry time, therefore, tread lightly on the surface during application of the second coat. Wear either spiked shoes or running shoes to limit the surface imperfections.

For areas over 1000 sq. ft. (93 sq. m.) use a squeegee to spread out the EX-2C C.C. Topcoat and then back roll with the short pile roller.

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

Refer to the Concrete Floor Coating System Guide for complete instructions.

Film Build

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

Wet: WFT Unreduced	3.0 – 4.5 mils	75 – 114 microns
Dry: DFT	2.0 – 3.0 mils	50 – 75microns

Poor hiding colors film build may be higher.

Theoretical coverage at 1.0 mil (25 microns)
Average DFT is: 818 ft² per gallon at 100% transfer efficiency

The EX-2C C.C Topcoat total coverage should be 70 - 100 sq. ft./ quart (6.8 - 9.3 sq. m./liter). This will result in a film build of 2.0 - 3.0 mils dry (50-75 microns).

The smaller the coverage area the greater the abrasion resistance due to increased coating thickness.

Dry Times

Dry Film Thickness 2.0 – 3.0 mils (50 – 75microns)	68°F (20°C)
Dust Free	2 Hours
Walk-On	36-48 Hours
Heavy Traffic	4 Days
Full Cure	7-14 Days

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

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

For questions about scheduling please contact your Endura representative.

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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 Pails.
Other custom sizes may be available.

ROLLER APPLICATION:

5 Mixed Gallons		
Comp A – 2X Part numbers vary by color	CLRXXXXX-030	1 Gal.
Special Comp B	FUB0101-030	1 Gal.
Xylene - 2X	FTH-0022	1 Gal.

25 Mixed Gallons		
Comp A – 2X Part numbers vary by color	CLRXXXXX-050	5 Gal
Special Comp B	FUB0101-050	5 Gal
Xylene - 2X	FTH-0022	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.

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	100 in. lbs; NO failure
Flexibility	ASTM D522	1/8 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.endurapaint.com.