



Impact 321 Technical Data Sheet (TDS)

Product Description

Endura Impact 321 is polyurethane; liquid rubber hybrid coating that provides a tough, durable, abrasion resistant finish for a wide variety of DIY applications.

Product features:

- Ability to build up to 100 mils in one coat.
- Easy to Apply – for vertical surfaces.
- Texture of surface can be easily modified to your own requirements.
- Liquid rubber element offers a high degree of flexibility.
- Can be used as an Anti-Skid Coating.
- Available in multiple colors.
- **VOC compliant.**

Recommended Uses

Impact 321 is intended for industrial applications; either new build or maintenance.

Impact 321 is suitable for application on all Endura primers.

Impact 321 is a heavy wear product for multiple service applications such as an impact absorber for high maintenance zones on equipment and vehicles.

Impact 321 may also be used as a rubberized coating for marine applications.

Industries:

- Oilfield & Energy Services
 - Well Service Vehicles
 - VAC Trucks
- Waste and Recycling Industry
 - Garbage Trucks
- Trailers and Rolling Stock
- Logging Industry
- Marine (above the water line)
- Vehicle floors, fenders, and more

Mix Ratio

3 parts by volume of component A [FUAXXXX]
1 part by volume of component B [FUB1200]

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

Product Characteristics

Gloss:

Volume Solids Mixed:

68% ± 2% (depending on color)

Pot Life: 30 minutes at 77°F (25°C) and 50% RH

VOC Mixed (EPA Method 24):

White FUA1200: 300 g/l (2.503 lb /gal)

**Note: All colors are below 430 g/l (3.588 lb/gal)
VOC content will vary with each color**

Shelf Life:

Component A: 1 year at 77°F (25°C)

Component B: 1 year at 77°F (25°C)

Note: For unopened product

Surface Prep

Steel Substrate:

Surface must be free of all contaminants such as dust, oil, grease and salt. It is recommended that all steel and other ferrous surfaces be sandblasted to a minimum of SSPC-SP6 or mechanically sanded with 80 grit sand paper and primed with the appropriate Endura Primer.

If the primer has been allowed to dry for more than 12 hours, it is highly recommended that a thin film tie coat of either Epoxy Primer Sealer or Delta Sealer can be applied to ensure good adhesion to the surface. Apply these primers by spray, brush or roller to achieve a minimum of 0.75 dry film thickness.



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Previously painted Surfaces:

Scuff sand the surface with 240-280 grit sandpaper and apply a tie coat primer such as EP Sealer or other approved Endura primers.

Application Method

Impact 321 is sprayed with a pneumatic Shutz or undercoat gun. Impact 321 cannot be sprayed with a standard paint gun.

Impact 321 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.

It is recommended that Impact 321 be applied over EP Sealer primer within 30 – 60 minutes to a maximum of 4 hours while the primer is still solvent sensitive.

A slow cure high build epoxy may allow for a longer overcoat window of more than the 4 hours.

Note: If you wish to retain a high gloss finish or long term UV stability, we would recommend over coating with EX-2C polyurethane.

Spray Gun Setup

Feed Type	Fluid Tip	Application Pressures (heel of gun)	Fluid Delivery
Shutz Gun		40-50 psi	

Spray Viscosity

Seconds	Using
Conventional	Airless
Reduce as necessary*	

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

Spraying viscosity and thinning will manipulate and affect the desired surface finish.

To achieve a desired spraying viscosity and desired surface finish reducing with Xylol

FTH0022 – Xylol

Film Build

Endura Impact 321 has a recommended film build thickness as a topcoat over primer of:

**Wet: (unreduced): 29.0 – 147 mils
(725 – 3675 microns)**

Dry: 20.0 – 100.0 mils (500 – 2500 microns) DFT

Theoretical coverage at 1.0 mil (25 microns) DFT: 1083 ft² per gallon at 100% transfer efficiency.

Dry Times

Drying time will vary depending upon temperature and film thickness.

	68-77°F (20-25°C)
Dry to Touch	3-4 hours
Dry to Handle	1 day
Full Cure	5-7 days

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

For questions about scheduling please contact your Endura Representative.

Topcoating Information

Impact 321 can be topcoated with Endura EX-2C or UltraFlex.

Note: Topcoating is recommended for long term UV stability.

Clean Up

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



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Ordering Information (sizing)

Available in Shutz Cans and Gallons.

Other custom sizes may be available.

Shutz Cans		
Comp A - White	FUA1200-029	Shutz Can
Comp A - Black	FUA1201-029	Shutz Can
Comp A - Red 150	FUA1207-029	Shutz Can
Comp B	FUB1200-019	

1 Gallon		
Comp A - White	FUA1200-030	3 Qts.
Comp A - Black	FUA1201-030	3 Qts.
Comp A - Red 150	FUA1207-030	3 Qts.
Comp B	FUB1200-020	1 Qt.

Contact your Endura Representative for information on other colors.

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 D2240	70±5 Shore A
Solvent Resistance	ASTM D4752	50 MEK Rubs; No Failure
Adhesion Cross Cut	ASTM D3002	5 (100/100)
Impact resistance	ASTM D2794	100 in. lbs; NO failure
Taber Abrasion (1Kg.;1000 cycles CS-17)	ASTM D4060	<10 mg loss
Service Temp		<300°F (148°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.endura.ca.