

Technical Data Sheet (TDS)

Product Description

Elasto 20 is a two-component reinforced epoxy coating that provides enhanced impact resistance for extreme environments. This product cures to form a durable seamless membrane to protect steel, concrete, and other substrates.

Product features:

- Impact resistance
- Corrosion resistance
- Chemical resistance
- High build
- High solids
- VOC Compliant

Recommended Uses

Elasto 20 is intended for industrial applications, either new build or maintenance. It is suitable for application on steel, aluminum, stainless steel, fiberglass, and other ferrous metals. Elasto 20 may be used as a stand-alone coating or as a primer.

Industries:

- Oilfield & Energy Services
- Logging Industry
- Trailers and rolling stock
- ATV's
- Waste and Recycling Industry

Typical uses:

- Undercoating
- Truck bed liners
- Floors
- Fenders
- A primer for high performance environments

Product Characteristics

Finish: Lo Gloss	
Volume Solids Mixed: (Unreduced) FEA1000: FEB1100 (2:1)	79% ± 2%
Volume solids will vary by color	
Pot Life: (77°F (25°C) and 50% RH)	2 Hours
Note: Higher volume of mixed product and/or high ambient temperatures will drastically reduce pot life.	
VOC Mixed (Unreduced): EPA Method 24	186 g/l
FEA1000: FEB1100 (2:1)	1.548 lb /gal
VOC content will vary with each color	
Note: All colors are below 250g/l.	
Shelf Life: For unopened product (77°F (25°C))	
Component A	1 years
Component B	1 years

Surface Preparation

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 a minimum of SSPC- SP6 or mechanically sanded with 80 grit sandpaper.

For all other substrates refer to the Endura recommended surface preparation instruction sheets or contact your Endura Representative.

Mix Ratio

GREY:

2 parts by volume of component A **[FEA1000]**
1 part by volume of component B **[FEB1000]**

BLACK:

2 parts by volume of component A **[FEA1000]**
1 part by volume of component B **[FEB1100]**

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

Spraying viscosity and thinning will affect the desired surface finish.

Application Method

Elasto 20 can be applied by conventional, airless or Shutz gun.

Apply one heavy coat to achieve desired film build

Film Build

Elasto 20 recommended film thickness:

Primer: Unreduced		
Wet: WFT	6.0 mils	150 microns
Dry: DFT	4.5 mils	115 microns

Stand Alone Coating: Unreduced		
Wet: WFT	20.0 mils	500 microns
Dry: DFT	16.0 mils	405 microns

Theoretical coverage at 1.0 mil (25 microns)

DFT: 1259 ft² per gallon at 100% transfer efficiency.

Dry Times

	68-77°F (20-25°C)
Gel Time (100ml mixed)	2-4 Hours
Cure to Touch	6-8 Hours
Cure to Handle	16 Hours
Full Cure	7 Days
Time to Recoat	6-24 Hours



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

For best results, surface temperature must be 86°F (30°C) or less before topcoating. Maximum re-coat window without sanding is 24 hours at 68°F (20°C). Mechanical sanding with 180 grit sandpaper is recommended after exceeding the recoat window.

For questions about scheduling please contact your Endura Representative.

Topcoating Information

Elasto 20 can be topcoated with the entire range of Endura topcoat products.

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)

Product lead times may apply. Please contact your Endura Representative for further information regarding stock availability and lead times.

Elasto 20 (Gallon cans) 3 mixed gallons (11.3l)		
Comp A - Black - 2X	FEA1000-030	1 gallon (3.78l)
Comp B - White	FEB1000-030	1 gallon (3.78l)
OR		
Comp B - Neutral	FEB1100-030	1 gallon (3.78l)

Elasto 20 (5 gallon pail) 3 mixed gallons (11.3l)		
Comp A - Black	FEA1000-052	2 gallons (7.56l)
Comp B - White	FEB1000-030	1 gallon (3.78l)
OR		
Comp B - Neutral	FEB1100-030	1 gallon (3.78l)

Contact your Endura Representative for custom color information.

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 D2240	80±5 Shore D
Solvent Resistance	ASTM D4752	100 MEK Rubs; No failure
Impact Resistance	ASTM D2794	100 in. lbs; NO failure
Flexibility	ASTM D522	1/4 in. mandrel bend: NO failure
Service Temp Range	-40°F to 250°F	-40°C to 121°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.