

DESCRIPTION

ProSeal EZ is a white epoxy coating system developed for use in the manufacture of composite and wooden boats. This two component resin system will fill in and seal surface fabric textures in FRP reinforced structures, leaving a porosity free sandable surface, replacing the conventional method of blending resin, hardener and thickening additives. Typically, one application applied with brush, roller or squeegee, is all that is required to fill in the texture or weave in cloth fabric. ProSeal EZ is resistant to water immersion, making it an ideal choice for sealing exterior and interior marine structures, above or below-the-waterline. ProSeal EZ is available with a simple 5R:1H parts-by-volume mix ratio with ProSeal EZ hardener. **ProSeal EZ is available with two hardener options: ProSeal EZ 15 fast hardener and ProSeal EZ 60 slow hardener.**

APPLICATIONS

- Fill in and seal surface fabrics or wood in marine vessels
- Above or below waterline usage

PROPERTIES

- Fills weave in one application with no porosity
- Water resistant for above or below the waterline applications
- Easier to sand resin formula
- Surface can be sanded in as little as 4 hours with EZ 15
- Compatible with fiberglass and wood marine vessels
- 0% VOC's (Volatile organic compounds)
- Epoxy system offers good chemical resistance
- Low cured density

PHYSICAL PROPERTIES – ProSeal EZ Resin / Proseal EZ 15

	Units(s)	ProSeal EZ Resin	ProSeal EZ 15	Mixed
Composition		Epoxy	Amine	
Mix ratio – by weight		100	22	100/22
– by volume		100	20	100/20 (5/1)
Aspect		Grain free liquid	Liquid	Grain free liquid
Color		White	Amber	White
Density at 77°F (25°C)	lbs./gal (g/cc)	7.6 – 8.0 (.91-.96)	8.2 – 8.5 (.98-1.02)	7.7 - 8.0 (.93-.96)
Viscosity at 77°F (25°C)	Cps	21,000 – 43,000	150 - 200	7,000-10,000
Pot life (200 grams) at 77°F (25°C)	minutes			15
Sag @ 50 mil (.050")	inches			Pass
Cure to sand time @ 77°F (25°C)	hours			4-6
Complete cure time @ 77°F (25°C)	days			5-7



PROSEAL EZ
Technical Data Sheet
EPOXY COATING COMPOUND
Coating for above or below water line applications

PHYSICAL PROPERTIES – Proseal EZ/ ProSeal EZ 60				
	Units(s)	ProSeal EZ Resin	ProSeal EZ 60	Mixed
Composition		Epoxy	Amine	
Mix ratio – by weight		100	21	100/21
– by volume		100	20	100/20
Aspect		Grain free liquid	Liquid	Grain free liquid
Color		White	Amber	White
Density at 77°F (25°C)	lbs./gal (g/cc)	7.6 – 8.0 (.91-.96)	8.2 – 8.5 (.98-1.02)	7.7-8.0 (.93-.96)
Viscosity at 77°F (25°C)	Cps	21,000 – 43,000	150 - 200	7,000-10,000
Pot life (200 grams) at 77°F (25°C)	minutes			61
Sag @ 50 mil (.050")	inches			Pass
Cure to sand time @ 77°F (25°C)	hours			16 – 24
Complete cure time @ 77°F(25°C)	days			5-7

MECHANICAL AND THERMAL PROPERTIES - ProSeal EZ 15			
Property	Test Method	Units (s)	Test Result
Flexural strength	ASTM D-790	Psi (Mpa)	8,269 (57)
Flexural modulus	ASTM D-790	Psi (Mpa)	421,021 (2,903)
Tensile strength	ASTM D-638	Psi (Mpa)	5,663 (39)
Tensile elongation	ASTM D-638	%	1.7
HDT @ 66 psi	ASTM D-648	°F (°C)	130 (54)

MECHANICAL AND THERMAL PROPERTIES - Proseal EZ 60			
Property	Test Method	Units (s)	Test Result
Flexural strength	ASTM D-790	Psi (Mpa)	7,686
Flexural modulus	ASTM D-790	Psi (Mpa)	476,600
Tensile strength	ASTM D-638	Psi (Mpa)	5,108
Tensile elongation	ASTM D-638	%	1.4
HDT @ 66 psi	ASTM D-648	°F (°C)	117 (47)

CHEMICAL RESISTANCE/96 HOURS IMMERSION (MASS +/-% WEIGHT CHANGE)

	<u>ProSeal EZ 15</u>	<u>ProSeal EZ 60</u>
Water	+0.36%	+0.38%
1M H2SO4	+1.45%	Destroyed
Toluene	+2.37%	+9.92%
Unleaded Gasoline	+0.03%	+0.10%
Diesel Gasoline.....	+0.09%	No Data
Diesel Gasoline (28 day immersion)	+0.12%	No Data
Kerosene	+0.09%	+0.04%
Jet-A Aviation Fuel	+0.16%	+0.08%
Methyl Ethyl Ketone	Destroyed	Destroyed
Acetone	Destroyed	Destroyed

CHEMICAL RESISTANCE/32 DAY IMMERSION (MASS +/-% WEIGHT CHANGE)

Unleaded Gasoline with 25% Ethanol	Destroyed	Destroyed
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SURFACE PREPARATION and APPLICATION

Note: Do not topcoat directly over ProSeal EZ. Use surface primer products as recommended by topcoat manufacturer.

- The area to be filled or repaired should be thoroughly cleaned, roughened, cleaned again and allowed to dry prior to application to ensure the best possible adhesion.
- After curing to a tack-free state, the material can be sanded and finished as needed.

Sanding or further preparation of the ProSeal EZ is only possible after it has been allowed to fully cure to material specifications. To achieve desired results, it is critical that all tools, mixing boards, containers, and all other material application accessories must be free from contamination. Proper mixing of ProSeal EZ must be followed. It is imperative that the ProSeal EZ is applied to the prepared surface immediately upon achieving a proper mix. ProSeal EZ Compound must not be applied beyond the recommended pot life.

STORAGE CONDITIONS

- Product shelf life of resin and hardener is 2 years when stored in original unopened containers between 65 – 77°F (15 – 25°C). Any opened can must be tightly closed. Any opened can must be tightly closed.

HANDLING PRECAUTIONS

Normal health and safety precautions should be observed when handling these products:

- Ensure good ventilation
- Wear gloves, and safety glasses.

For additional information, please consult the safety data sheet (SDS).

DISCLAIMER

The information contained in this technical data sheet results from research and tests conducted in our laboratories under precise conditions. Seller cannot anticipate all conditions under which seller's products, or the products of other manufacturers in combination with seller's products, may be used. It is the responsibility of the user to determine the suitability of the SikaAxson's products, under their own conditions, before commencing with the proposed application. In no event shall SikaAxson US be liable for any direct, indirect, punitive, incidental, special, and/or consequential damages, to property or life, whatsoever arising out of or connected with the use or misuse of our products.