

High Performance

Wrap Seal PLUS™ standard resin and activator is a Bisphenol A resin that has high adhesion strength, high strength and excellent alkali and acid resistance.

Wrap Seal PLUS™ activated resin and activator consist of two components, Resin and Activator, each separately packed. Resin container is slack filled to permit addition of activator for mixing in the resin container.

Typical Activated Resin Properties

Property ⁽¹⁾	Value
Density, 25°C/77°F	1.07 g/mL
Dynamic Viscosity, 25°C/77°F	430 mPa·s
Kinematic Viscosity	400 cSt
Shelf Life ⁽²⁾ , Dark, 25°C/77°F	12 months

(1) Typical property values only, not to be construed as specifications.

(2) Unopened container with no additives, promoters, accelerators, etc. added. Shelf life specified from date of manufacture.

Applications Techniques

FRP storage tanks, pipes, vessels, ducts, and on-site maintenance projects, particularly in chemical processing, pulp and paper operations, including chlorine dioxide bleaching towers.

The resin is designed for ease of application using paint rollers and paint brush.

Benefits

Heat deflection temperature -65°C to 300°C.

Provides excellent corrosion-resistant protection to organic solvents such as methanol, chlorobenzene, and methyl ethyl ketone to provide longlasting, reliable equipment for corrosive materials.

Strength properties allowing flexibility in design and application while still meeting safety requirements.

The higher elongation provides FRP equipment with increased toughness and a safety factor for impact damage during process upsets or during shipping and installation.

Curing Time

The following table provides typical cure times for Wrap Seal PLUS™ activated resin and activator.

Curing Time Table

Temperature	Initial Curing Time
18°C/ 65°F	180 minutes
24°C/ 75°F	90 minutes
30°C/ 85°F	30 minutes
35°C/ 95°F	20 minutes
40°C/ 104°F	15 minutes
45°C/ 113°F	10 minutes

Technical Properties

Typical Properties of Post-cured Wrap Seal PLUS™ Activated Resin

		Test Method
Tensile Strength	65 000 PSI	ASTM D-3039
Tensile Modulus	3.8 x 10 ⁶ PSI	ASTM D-3039
Tensile Elongation, Yield	5-6%	ASTM D-3039
Shear Strength	2 900 PSI	ASTM D-732
Flexural Strength	53 100 PSI	ASTM D-695
Flexural Modulus	3.6 x 10 ⁶ PSI	ASTM D-695
Compressive Strength	28 500 PSI	ASTM D-695
Dielectric Strength	Non-conductive	Applied at 16,000 Volts
Density	1.15 g/cm ³	ASTM D-792/ISO1183
Volume Shrinkage	7.5%	
Hardness	85	Shore D

Safety and Handling Consideration

This resin contains ingredients which could be harmful if mishandled. Contact with skin and eyes should be avoided and necessary protective equipment and clothing should be worn. SealXpert™ maintains Material Safety Data Sheets on all of its products. Material Safety Data Sheets contain health and safety information for your development of appropriate product handling procedures to protect your employees and customers.

Our Material Safety Data Sheets should be read and understood by all of your supervisory personnel and employees before using SealXpert™ products in your facilities.

Recommended Storage:

Store at temperatures below 35°C/ 95°F. Storage life decreases with increasing storage temperature. Avoid exposure to heat sources such as direct sunlight or steam pipes. To avoid contamination of product with water, do not store outdoors. Keep sealed to prevent moisture pick-up and monomer loss. Rotate stock.