



# RhinoGuard 2185

## GENERAL PROPERTIES

RhinoGuard 2185 is a two-component, rapid curing, elastomeric polyurethane / polyurea hybrid membrane lining system. The addition of Polyurea technology provides enhanced moisture tolerance during application.

- Lining thickness varies based on application typically minimum of 3mm up to unlimited thickness in one application
- Excellent abrasion resistance
- Excellent impact resistance
- Excellent casting material
- Good noise reduction
- Excellent weather resistance
- Excellent corrosion resistance
- Resistant to most common oils and chemicals
- UV stable

## RECOMMENDED USES

- Excellent protective lining for abrasion, impact and corrosion.
- Spray-on application creates a monolithic seamless lining, which conforms to any shape and size.
- Elastomeric properties allow for application to surfaces subject to extreme vibration, expansion, contraction, movement, flexing, abrasion and impact.
- Bonds virtually to all substrates of any dimension, including all metals, concrete, wood and fibreglass.
- Reduces noise from vibration and impact.
- Ideal for pedestrian traffic and suitable for light vehicular traffic.
- Casting of wear plates, impact plates, chute liners, rollers, vibration isolation pads.
- Additional slip resistance performance can be achieved with aggregate integrated into lining.
- Corrosion protection for steel substrates.

## CHEMICAL RESISTANCE:

Good resistance to many routine, general purpose chemicals such as: weak acids, weak alkalies, motor oils and cleaning agents. For specific applications and/or information, consult with Rhino Linings technical department.

## TYPICAL PHYSICAL PROPERTIES OF RhinoGuard 2185

Hardness (Shore A)	85A±5	ASTM D-2240
Tensile Strength (psi)*	1800 – 2100	ASTM D-412
Elongation (%)	220 – 280	ASTM D-412
Compressive Strength (psi)	800	ASTM D-695-96
Taber Abrasion Resistance (mg of loss/1000 cycles) CS17 Wheel: 1000 grams weight	15 - 20	ASTM D-4060
Tear Resistance (pli)* Die C	200 – 250	ASTM D-624
Ross Flex (% crack growth per 50,000 cycles)	0	ASTM FIA-308
Coefficient of Friction on Steel		
Static	0.84	ASTM D-1894-95
Kinetic	0.76	ASTM D-1894-95
Specific Gravity (grams/cc)	1.06 – 1.08	ASTM D-792
Water Absorption (%)	≤1.6	ASTM D-570
Dielectric Strength (volts/mil)	300	ASTM D-149
Volume Resistancy (ohm/inches)	6 x 10 (12)	ASTM D-257
Dielectric Constant (MHz)	5.4	ASTM D-150
Dissipation Factor (MHz)	0.058	ASTM D-150
Cathodic Disbonding	Pass	ASTM G-8