



DESCRIPTION: DuraTite[™] 2185P is a fast set, rapid curing, 100% solids, flexible, two component polyurea elastomer spray coating material. DuraTite[™] 2185P is used by itself or in combination with other materials to produce coatings, liners, wearing courses, and resilient surfaces on concrete substrates. Its extremely fast gel time makes it suitable for applications down to -20°F without special conditioning of the component resins and isocyanates. DuraTite[™] 2185P produces an extremely tough film at all thicknesses. Single or multiple pass applications produce films from 10 mils to 1000 mils without appreciable sag or runs. DuraTite[™] 2185P may be applied in all positions and to any suitably prepared substrate. DuraTite[™] 2185P is inert, it will not hydrolyze, leach, or contaminate other materials, and is bondable and paintable. DuraTite[™] 2185P is relatively moisture and temperature insensitive, allowing application in the most problematic ambient conditions.

TYPICAL USES:

DuraTite[™] 2185P is a superior coating material designed specifically for industrial applications receiving constant or intermittent attack from contained materials, subsurface hydrostatic pressure, most corrosive substances, and abrasive action. DuraTite[™] 2185P is flexible, accommodating movement of the substrate, yet strong enough to remain intact under all conditions except major structural dislocations. With or without reinforcements DuraTite[™] 2185P may be used in transitional areas with confidence. DuraTite[™] 2185P may be used in interior or exterior applications. DuraTite[™] 2185P is recommended for repair of other films, new construction and in cold weather conditions, cold storage facilities, freezers, and food processing plants where time and temperature are serious concerns. DuraTite[™] 2185P is ideal for applications in: Roofing, Industrial Facilities, Parking Garage Decks, Warehouse Floors, Below Grade Waterproofing, Above Grade Dampproofing, Manufacturing Facilities, Water and Waste Water Treatment, Cold Storage Facilities, Food Processing Facilities, Pulp and Paper Mills, Bottling and Canning Facilities, Walkways and Balconies, Secondary Containment, Refineries, Fertilizer and other Process Plants, Mining Operations, Landfill Containment, Freezers, Airports.

ADVANTAGES:

100% Solids, Meets VOC Regulations, Flexible, 500-600% Elongation, Excellent Thermal Stability, Heat of Deflection 250°F, no load, Glass Transition Temperatures -85°F and 450°F, Generally Suitable for Use when pH ranges from 4 –11, Good Resistance to a Wide Range of Chemical Attack, Non-catalysed, Non-reactive, Low Permeance Rate, Seamless Elastomer, Remains Flexible in Cold Temperatures, Return Project to Service in 60 Minutes, Cures From -20°F to 225°F, Odorless, No Toxic Vapors, USDA Approved.

LIMITATIONS:

DuraTite[™] 2185P should not be used for direct contact, with extremely high or low pH attack. Composite systems are available.

EMICAL PROPERTIES: Test	Isocyanate (A)	Resin (B)
Specific Gravity (grams/cc) ASTM D	0-792 1.12	1.06
Viscosity, cps	800 – 900	400 - 600
Solids by Volume/Weight	100%	100%
Volatile Organic Compounds	0 lbs/gal	0 lbs/gal
Mix Ratio, parts per volume	1	1
Gel Time, Seconds	20 – 30 @180°F (82°	°C)
Tack-free, Seconds	40 – 70 @180°F (82°	°C)
Shelf Life - Unopened Containers	12 months	12 months
Dees Oslav	a sea la la su	brown
Base Color	amber	brown
*Properties were tested at 77°F (25°C).	amper	nword
*Properties were tested at 77°F (25°C).	Test	Result
*Properties were tested at 77°F (25°C).	Test	Result
*Properties were tested at 77°F (25°C). PICAL PHYSICAL PROPERTIES: Hardness (Shore A)	Test ASTM D-2240	Result 85±5
*Properties were tested at 77°F (25°C). 'PICAL PHYSICAL PROPERTIES: Hardness (Shore A) Fensile Strength (psi)**	Test ASTM D-2240 ASTM D-412	Result 85±5 1650 – 1850
*Properties were tested at 77°F (25°C). 'PICAL PHYSICAL PROPERTIES: Hardness (Shore A) Tensile Strength (psi)** Elongation (%)**	Test ASTM D-2240 ASTM D-412 ASTM D-412 ASTM D-624	Result 85±5 1650 – 1850 500 – 600
*Properties were tested at 77°F (25°C). PICAL PHYSICAL PROPERTIES: Hardness (Shore A) Fensile Strength (psi)** Elongation (%)** Fear Resistance lbs/in	Test ASTM D-2240 ASTM D-412 ASTM D-412 ASTM D-624	Result 85±5 1650 – 1850 500 – 600 325

(continued)

PROCESS TEMPERATURE AND ENVIRONMENT CONDITIONS: DuraTite[™] 2185P must be spray-applied using approved equipment. The system settings required to achieve quality spray polyurea application will vary depending on environmental and substrate conditions. The following recommended parameters will help ensure optimum foam quality.

Iso (A) & Resin (B) Component	Hose Temperature	Prcessing Pressure	Relative Humidity
180°F (82°C)	180°F (82°C)	2000 – 3000 psi	<85%
Substrate Temperature	Substrate Moisture	e Content Max	kimum Film Thickness
0 – 120° F (0 – 48.9° C)	<15%	NA	

PREPARATION: Surface must be clean, dry and free of any mildew, oil, grease, dirt, loosely adhered materials, or other foreign contaminants that would prevent proper adhesion. Moisture content is critical to proper adhesion. If moisture content cannot be determined or exceeds 15%, a primer is recommended. Moisture effects the adhesion of the polyurea. Relative humidity must not exceed 85%. When heating a building, the relative humidity can change drastically and should be constantly monitored. Substrate priming is not required on all substrates. For detailed preparation and installation procedures, refer to Rhino Linings Corporation Technical Service specifications for DuraTite[™] 2185P.

COVERAGE RATES Theoretical Square Feet Per Gallon:

Mils	10	15	50	60	80	100	125	
Square Feet	160	107	32	27	20	16	13	

Note: 1604 mil inches per gallon. Totally dependent on substrate texture and condition.

HOW SUPPLIED:

One Hundred Gallon Kit: 50 gallons of 'A' side and 50 gallons of 'B' side. Ten Gallon Kit: 5 gallons of 'A' side and 5 gallons of 'B' side.

- **MIXING INSTRUCTIONS:** DuraTite[™] 2185P must be spray applied using approved equipment. Use 1:1 ratio pump, with appropriate material heaters, as required for individual application. For information contact Rhino Linings Corp. Technical Service.
- **COLOR OPTIONS:** Standard color is charcoal aluminized. Other colors available upon request. The aluminized version of DuraTite[™] 2185P is particularly suited for roofing applications.

STORAGE: DuraTite[™] 2185 One year, in original, unopened factory containers, under normal storage conditions of 55°F to 95°F.

- **DISPOSAL AND CLEAN-UP:** Cured product may be disposed of without restriction. Excess liquid 'A' and 'B' material should be mixed together and allowed to cure, then disposed of in the normal manner. Product containers that are "drip free" may be disposed of according to local, state and federal laws.
- **RECOMMENDED SAFETY EQUIPMENT:** Basic safety for personal protection is: Long-sleeve overalls or disposable TYVEK overalls. Rubber gloves. Splash shield or safety glasses with splash guards. Rubber or leather boots. Do not use near high heat or open flame. Do not take internally. Keep out of the reach of children.

SAFETY PRECAUTIONS: Health Considerations: Consult the Rhino Linings® Safety Data Sheets (SDS)

This chemical system requires the use of proper safety equipment and procedures. Please follow the Rhino Linings[®] product SDS and Safety Manual for detailed information and handling guidelines.

For Your Protection: The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning the products and their uses, applications, storage and handling are only the opinion of Rhino Linings Corporation. Users should conduct their own tests to determine the suitability of these products for their own particular purposes and of the storage and handling methods herein suggested. The toxicity and risk characteristics of products made by Rhino Linings Corporation will necessarily differ from the toxicity and risk characteristics developed when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors.

Because of numerous factors affecting results, **Rhino Linings Corporation makes no warranty of any kind, express or implied,** other than that the material conforms to its applicable current Standard Specifications. Rhino Linings Corporation hereby disclaims any and all other warranties, including but not limited to those of merchantability or fitness for a particular purpose. No statements made herein may be construed as a representation or warranty. The liability of Rhino Linings Corporation for any claims arising from or sounding in breach of warranty, negligence, strict liability, or otherwise shall be limited to the purchase price of the material.

©2017 Rhino Linings Corporation. All rights reserved.



Rhino Linings Corporation 9747 Businesspark Avenue, San Diego, CA 92131 858-450-0441 • Fax 858-450-6881 1-800-422-2603 www.rhinolinings.com