



# BAYTEC® SPR-185A

## *Elastomeric Polyurethane Spray System*

### Description

Baytec SPR 185A is a two-component spray system with a Shore A hardness of 87\*. The isocyanate component is a modified diphenylmethane diisocyanate (MDI) quasi-prepolymer and the polyol component is a polyether/amine blend. This system contains UV stabilizers and Aluminum leafing pigment for enhanced UV stability.

Typically used for industrial roofing applications applied over metal or concrete roofs, the system is pigmented to a metallic Aluminum color.

As with any product, use of the Baytec SPR-185A in a given application must be tested (including field testing, etc.) in advance by the user to determine suitability.

### Typical Properties of System\*

Properties	ASTM Test Method	Units	Value
Hardness	D 2240	Shore A	87
Specific Gravity	D 792		1.08
Tensile Strength, ultimate	D 412	psi	1,800
Elongation, ultimate	D 412	%	325
Die-C Tear	D 624	pli	275
180° Peel Test (dry)	D 903 mod.	pli	12.5
Water Transmission	E 96	perm-in.	0.06
Water Absorption 24 hour	D 570	%	1.48

\* These items are provided as general information only. They are approximate values and are not part of the product specifications.

### Typical Properties of Components\*

Property	Isocyanate	Polyol
Appearance	Metallic silver liquid	Light yellow to amber liquid
Viscosity at 25°C, mPa•s	950	750
Specific Gravity at 25°C	1.10	1.02
Flash Point, PMCC, °C	86	152
NCO, %	13.5	-
Hydroxyl Number, mg KOH/g	-	194

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### Processing Conditions

For detailed application and processing conditions, please consult the Baytec SPR 185A Roofing Spray System Application Guide. The Baytec SPR-185A system components can be processed and sprayed on both high and low pressure equipment. It is essential to have equipment that consistently delivers accurate amounts of both components to the mixed to achieve a high-performance elastomer.

Molding Parameters	
Processing Temperature	145-155°F ( 63-68°C)
Mix Ratio (Iso/Polyol)	
By Volume	100/100
By Weight	110/100
Gel time	15-17 sec.
Tack-free time	1.5 min.

### Storage and Handling

**Isocyanate Component:** The MDI isocyanate component is sensitive to moisture. Original containers must be kept tightly closed to prevent contamination with moisture and foreign materials, which can adversely effect processing. Recommended storage temperature is 68 – 86°F (20 – 30°C). Shelf life is 6 months when stored in closed, original containers at 77°F (25°C).

**Polyol Component:** The polyol component is hygroscopic and containers must be kept closed to prevent absorption of moisture, which can adversely effect processing. Recommended storage temperature is 68 – 122°F (20 – 50°C). Shelf life is 6 months, when stored in closed containers at 77°F (25°C).

### Health and Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling Baytec SPR-185A isocyanate and polyol components. Before working with these components, you must read and become familiar with the available information concerning their hazards, proper use and handling. This cannot be overemphasized. Information is available in several forms, e.g., material safety data sheets and product labels. Consult your Bayer MaterialScience representative or contact the Product Safety and Regulatory Affairs Department in Pittsburgh, PA.

Note: The information contained in this bulletin is current as of June 2005. Please contact Bayer MaterialScience to determine whether this publication has been revised.

Bayer MaterialScience LLC

100 Bayer Road • Pittsburgh, PA 15205-9741 • Phone: 1-800-662-2927 • [www.BayerMaterialScienceNAFTA.com](http://www.BayerMaterialScienceNAFTA.com)

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### Sales Offices

17320 Redhill Avenue, Suite 175, Irvine, CA 92614-5660 • 1-949-833-2351 • Fax: 1-949-752-1306  
 1000 Route 9 North, Suite 103, Woodbridge, NJ 07095-1200 • 1-732-726-8988 • Fax: 1-732-726-1672  
 2401 Walton Boulevard, Auburn Hills, MI 48326-1957 • Phone: 1-248-475-7700 • Fax: 1-248-475-7701