

# TECHNICAL DATA SHEET

Material Specification Criteria | Project Submittal Data



## PREMICOTE™ 2100

### SILICONE COATING - HIGH SOLIDS

**PRODUCT TYPE:** A ready-to use, high solids, single component, moisture cure fluid applied silicone coating.

**GENERAL PROPERTIES:** Breathable membrane possessing superior weathering and water resistance characteristics.

**RECOMMENDED USES:** Provides elemental protection for architectural surfaces such as vertical walls, masonry, concrete, metal, single ply membranes and sprayed-in-place urethane foam systems.

**PRODUCT LIMITATIONS:** Not recommended for continuous immersion service, for use in cryogenic tank, or cold storage roofing applications without a vapor barrier, or directly over modified bitumen, asphalt or coal tar built-up roofing systems without a sealer.

Please consult Accella™ Polyurethane Systems Technical Department for any specific questions regarding the application of this product.

**FLAMMABILITY CHARACTERISTICS:** : PremiCote™ 2100 Silicone Coatings carries Class “A” Non-Combustible and Class “B” Combustible credentials as tested under UL 790 procedures over spray foam and single ply roofing systems. Contact Accella™ Polyurethane Systems or refer to the UL directory for specific information.

**COMPLIANCE:** Material tested complies with all the requirements of ASTM D 6694-01 Standard Specification Liquid-Applied Silicone Coating used in Spray Polyurethane Foam Roofing.

## TYPICAL PHYSICAL PROPERTIES:

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<b>TENSILE STRENGTH</b>	307 psi at 73°F. ± 20 484 psi at 0 °F. ± 20	ASTM D-2370
<b>ELONGATION</b>	205% at 73°F. ± 20 306% at 0°F. ± 20	ASTM D-2370
<b>TEAR RESISTANCE</b>	(Die C) 26 lb f/in @ 73°F	ASTM D-624
<b>VISCOSITY: (BROOKFIELD RVF)</b>	Typical 4,500 to 6,500 cps	#5 Spindle 20 rpm @ 77°F
<b>REFLECTIVITY: (WHITE)</b>	.70 Aged 3 yr	ASTM C-1549
<b>EMISSIVITY: (WHITE)</b>	.90 Aged 3 yr	ASTM C-1371
<b>SRI VALUE:</b>	110 Initial	-
<b>PERMEANCE: US PERMS</b>	9.3 ±	ASTM E-96 Procedure B
<b>TENSILE, SET AT 100% ELONGATION:</b>	Nil.	-
<b>TEMPERATURE STABILITY RANGE:</b>	-80 °F. to 350°F. (-37C. to 177C)	-
<b>WATER ABSORPTION:</b>	0.1 weight % after 2 weeks at 75 °F. (24°C)	ASTM D-471

## STANDARD COLORS / PACKAGING

	AVAILABLE COLORS	CLASS RATING
<b>PREMICOTE™ 2100</b>	White, Light Grey, Dark Grey & Tan (Special colors are available upon request at additional charge. Allow additional 15 days for nonstandard colors.)	55
	AVAILABLE IN	CLASS RATING
<b>PRODUCT PACKAGING</b>	5 Gallon Pails (19 liters) 50 Gallon Drums (189.3 liters)	55

**D.O.T. CLASSIFICATION:** Roof Coating – Not Regulated

### HMIS® RATING:

Health 2, Flammability 0, Reactivity 0, Protection

0= Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

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<b>WEATHERING/UV RESISTANCE:</b>	No degradation after 5,000 hours	ASTM D-6694
<b>TACK FREE TIME:</b>	1 Hour < 50 Grams/Liter	Temp. & Humidity Dependent
<b>VOC:</b>	<50 Grams/Liter	EPA Method 24
<b>DUROMETER HARDNESS:</b>	50± 5 points	ASTM D-2240 Shore A
<b>SOLIDS CONTENT BY WEIGHT:</b>	96% ± 2	ASTM D-1644
<b>SOLIDS CONTENT BY VOLUME:</b>	96% ± 2	ASTM D-2697
<b>MAXIMUM CONTINUOUS SERVICE TEMPERATURE:</b>	185°F (85°C)	-
<b>FLASH POINT:</b>	>290°F	ASTM D-92
<b>CURE TIME:</b>	Minimum 2 hrs Maximum 8 hrs	@100°F & 90% Humidity @ 40°F & 20% Humidity
<b>SHELF LIFE:</b>	(UNOPENED CONTAINERS): 12 months **When Stored Between 40°F. and 80°F.**	

## PREMICOTE™ 2100

### SILICONE COATING - HIGH SOLIDS



**MATERIAL HANDLING:** Installers should read and understand all technical and informational literature on PremiCote™ 2100, including the Safety Data Sheets, prior to using this product. PremiCote™ 2100 is designed for installation by a professional application company. Caution should be exercised to prevent mishap due to improper handling. Published technical data and instructions are subject to change without notice. Contact your Accella™ Polyurethane Systems Representative or the Technical Services Dept. of Accella™ Polyurethane Systems for additional technical data and instructions.

**PROPER STORAGE OF MATERIALS:** Material storage temperatures should be 40°-80°F (21°-30°C) for several days prior to use and should not exceed 90°F (32°C). Cold materials can cause poor mixing, pump cavitation or other process problems due to higher viscosities at lower temperatures. Do not store where the containers will be exposed to rain, snow or high heat. Keep containers tightly closed when not in use and under dry conditions. Shelf life is 12 months.

**TECHNICAL ASSISTANCE:** For additional assistance please contact the Technical Services dept. of Accella™ Polyurethane Systems at (844) 922-2355.

**DISCLAIMER:** To the best of our knowledge, all technical data contained herein is true and accurate as of the date of issuance and subject to change without prior notice. User must contact Accella™ Polyurethane Systems to verify correctness before specifying or ordering. We guarantee our products to conform to the quality control standards established by Accella™ Polyurethane Systems. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of the product. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY ACCELLA™ POLYURETHANE SYSTEMS EXPRESSED OR IMPLIED; STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.



**APPLICATION GUIDELINES:** This may be applied to recommended clean, dry and sound surfaces. It may be necessary to power wash and/or prime the surface to enhance adhesion. Polyurethane foam should be coated within 24 hours of application. Subsequent coats of PremiCote™ 2100 should be applied within 3-5 days of prior applications to insure good adhesion between coats. Before applying another coat the previous coat must be completely dry and cured. Consult Accella™ Polyurethane Systems for specific recommendations and thickness requirements.

**APPLICATION EQUIPMENT:** This product may be sprayed with airless spray equipment, brushed or rolled. Due to the high viscosity of the material, a high-pressure airless pump capable of producing a minimum of 3500 psi at the spray gun should be used. The pump should have a minimum of 3 gallons per minute output and be fed by a 5:1 transfer pump to prevent cavitation. Always use components rated for the maximum pump pressure. Hoses should be BUNA-N jacketed for prevention of moisture contamination. Hoses should have a minimum I.D. of 3/4" and an adequate working pressure. The spray gun should be high pressure rated to meet the pump pressures with a reverse-a-clean spray tip. The spray tip should be 0.27 - 0.38 with a 50° fan angle. Rollers should be of a 1/2" - 3/4" nap and a brush can be used for touch up work.

**MIXING PROCEDURES:** No thinning or reducing is necessary. No thinning or reducing is necessary. Product may separate during shipping and storage. It is recommended to thoroughly mix the material in each container before use. If thinning is necessary, use VM&P Naphtha at no more than 5% of the drum or pail.

**WEATHER RESTRICTIONS:** Apply PremiCote™ 2100 when ambient and substrate temperatures are above 40°F (15.5°C). Do not apply PremiCote™ 2100 silicone coating when precipitation is expected within 1 hour of application. Cure time will be extended when humidity is below 35%.

**CLEAN UP:** Uncured silicone coating can be cleaned or equipment flushed with VM&P Naphtha or Mineral Spirits.

**MAINTENANCE:** The life of a roof may be extended by regularly scheduled maintenance. A roof should be inspected at least twice a year and immediately following severe weather, extraordinary maintenance or work on roof-mounted equipment.

**SAFETY PRECAUTIONS:** Avoid breathing solvent vapors. Use an appropriate MESA/NIOSH approved respirator when exposure can exceed recommended PEL. Additional care must be taken to prevent roof top HVAC equipment and air intakes from introducing vapors into interior areas during application. Installers should read and understand information on the Safety Data Sheet prior to the use of the product.



#### MANUFACTURED BY:

ACCELLA™ POLYURETHANE SYSTEMS, LLC  
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#### EMERGENCY NOTIFICATIONS:

CHEMTREC : Material Leaks, Spills or Fire (800) 424-9300