

# TECHNICAL DATA SHEET

Material Specification Criteria | Project Submittal Data



## PREMICOTE™ 1650

### ACRYLIC COATING - METAL ROOF RESTORATION

PremiCote™ 1650 is a plasticizer free, 100% acrylic, single component, bleed blocking, water based, premium quality elastomeric coating for spray, brush, or roller application over most roofing surfaces including metal, single ply and fabric surfaced asphalt emulsions.

**RECOMMENDED USES:** This product is intended for use as a highly reflective protective coating for most roofing substrates. May be used over metal, granulated cap-sheet and fabric-surfaced asphalt emulsion. Contact Accella™ for specific application information.

**PRODUCT LIMITATIONS:** This acrylic coating is water based and must be stored and used to prevent from freezing at 32°F (0°C). Do not apply when inclement weather is imminent. Curing is necessary prior to precipitation to avoid washing off the coating or affecting adhesion or physical properties. Do not apply if temperature will drop below 50°F (10°C) within 1-2 hours. The acrylic coatings stop curing below 50°F. Do not apply when the relative humidity is in excess of 85%. Avoid applying late in the day when conditions for dew and condensation are imminent. Material is not intended for ponded water applications. Applications where there is a risk of vapor drive, such as cold storage and refrigerated tank applications should only be made in conjunction with a suitable vapor barrier. This material is not intended for use as a thermal barrier.

**PONDING WATER:** Warranties do not cover damage due to ponding water. The National Roofing Contractors Association considers ponding water on any roof unacceptable. (See the NRCA Roofing and Waterproofing Manual). For additional assistance please contact the Technical Services dept. of Accella™ Polyurethane Systems, LLC. at (844) 922-2355.

STANDARD COLORS / PACKAGING	
<b>PREMICOTE™ 1650 BC - BASE COAT</b> Base coat formulation is available. Provides excellent adhesion and recoatability.	<b>AVAILABLE COLORS</b> Gray
<b>PREMICOTE™ 1650 TC - TOP COAT</b>	<b>AVAILABLE COLORS</b> Light Gray
<b>PRODUCT PACKAGING</b>	<b>AVAILABLE IN</b> 5 Gallon Pails 55 Gallon Drums

### TYPICAL PHYSICAL PROPERTIES:

PROPERTY	PREMICOTE™ 1650	TEST
TENSILE STRENGTH	300 psi ± 25	ASTM D 2370
ELONGATION	304% ± 25	ASTM D 370
PERMS	4	ASTM D 1653
SOLIDS (BY VOLUME)	55% ± 3	ASTM D 1644
SOLIDS (BY WEIGHT)	69% ± 3	ASTM D 370
DENSITY	11.65 lbs / Gallon	ASTM D 370
VOC	< 50 gal/liter	Method 24
FLASH POINT	> 212°F	ASTM D 1310
TEMPERATURE LIMIT	0°F to 185°F	
LOW TEMP. FLEXIBILITY	Passes 180°Flex over ½ Mandrel @ -30°F (-1°C)	ASTM D 522
CURE TIME	24 hours depending upon temp. & humidity	
DRY TIME	5 Hrs. at 75°F (50% RH)	
UL LISTING	This product has achieved a UL Class A rating over a combustible deck when tested in accordance with UL 790.	
ASTM D 6083	Passes requirements of ASTM D 6083 Standard for Acrylic Coatings	

**GENERAL PROPERTIES:** PremiCote™ 1650 has been formulated for maximum adhesion to most roof surfaces and to provide maximum bleed through resistance over asphaltic surfaces. Adhesion to fabric covered emulsions and granule surfaces is tenacious. Material is developed for maximum water resistance using the highest quality ingredients and attention to detail during manufacturing. This coating has the unique ability to provide a membrane that is not only watertight but also breathable allowing the escape of any trapped moisture vapor from the substrate.

# PREMICOTE™ 1650

## ACRYLIC BASE COAT - ASPHALT SURFACES



**MATERIAL HANDLING:** Installers should read and understand all technical and informational literature on PremiCote™ 1650, including the Safety Data Sheets, prior to using this product. PremiCote™ 1650 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. For additional assistance please contact the Technical Services dept. of Accella Polyurethane Systems, LLC. at (844) 922-2355.

**PROPER STORAGE OF RAW MATERIALS:** Material storage temperatures should be 70°-85°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 cavitations 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 air or nitrogen pressure of 1-2 psi after they have been opened. Shelf life of B-component is six months from date of manufacture and shelf life of A-component is one year from date of manufacture when stored per recommended temperatures and conditions.

**TECHNICAL ASSISTANCE:** For additional assistance please contact the Technical Services dept. of Accella Polyurethane Systems, LLC. 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™ to verify correctness before specifying or ordering. We guarantee our products to conform to the quality control standards established by Accella™. 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™ EXPRESSED OR IMPLIED; STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

### APPLICATION GUIDELINES:

**TEMPERATURE:** 50° F and rising

**RELATIVE HUMIDITY:** Do not apply when the temperature can fall to within 5 degrees of the dew point within 6 hours, or when the temperature could fall below 32 ° F within a 24 hour period after application. Late afternoon is not recommended if high humidity conditions exist, which could cause high moisture condensation on the surface overnight.

### RECOMMENDED APPLICATION RATE PER COAT:

Wet Mil	16-24 wet mils
Dry Mil	8-12 dry mils
Coverage	0.5 – 1.50 gal/sq

NOTE: Brush, roller, or spray applications may require multiple coats to achieve desired thickness.

### DRYING SCHEDULE @ 8.0 MILS WET @ 50% RH:

	50° F	77° F	100° F
To Touch	1.5 hrs.	1 hr	30 min
Tack Free	4 hrs.	1 hr	30 min
To Recoat	8 hrs.	4 hrs.	2 hrs.
To Cure	30 days	20 days	10 days

### APPLICATION PROCEDURES:

#### BRUSH

- Heavy applications will slump on vertical surfaces.
- Use nylon or polyester brushes. Do not over brush or apply too heavily.

#### ROLLERS

- Use 12, 18, or 24-inch rollers for back-rolling large areas. Use ½ inch to 1½ inch nap high-grade synthetic heads with phenolic cores. Rapid rolling will splatter and may become airborne on higher buildings.

#### SPRAY GUN

- Pressure: 3000 psi at 2.5 – 3.0 gal/min for high volume
- Tip: .017-.029 reversible, self-cleaning, with 40°-50° fan angle
- Gun: Standard Contractor gun – no filters
- Extension: 12 inch wand extension recommended
- Line: 3/8 inch minimum I.D. spray hose for rated pressure  
Application of PremiCote™ 1650 above or below minimum recommended spreading rate might adversely affect coating performance.



### MANUFACTURED BY:

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

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

