

## PHYSICAL PROPERTIES

<b>SOLIDS CONTENT</b>	.....	81%
<b>VOLUMETRIC MIX RATIO</b>	.....	1A:3B
<b>COVERAGE RATE</b>	.....	350 ft <sup>2</sup> /gal 4.6 Mils
<b>APPLICATION TEMP</b>	.....	50° - 90°F
<b>POTLIFE</b> 1 Gal mass @ 75°F	.....	20 Mins
<b>DRY TIME</b> @ 75°F	.....	4-24 Hours
<b>RECOAT WINDOW</b>	.....	8-12 Hours
<b>FULL CURE</b>	.....	7 Days
<b>PACKAGING</b>	.....	1 Gal Kit

## MECHANICAL PROPERTIES

<b>ABRASION RESISTANCE</b> ASTM D4060	.....	18-20 mg Loss
<b>COEFFICIENT OF FRICTION</b> ASTM C1028	.....	0.90 Dry

## CHEMICAL RESISTANCE

Refer to CrownTech Chemical Resistance Guideline Technical Bulletin No. 9

## PRODUCT DESCRIPTION

8001 is an extremely high gloss, clear 81% solids, two-component low odor aliphatic urethane. 8001 provides excellent chemical, corrosion and abrasion resistant characteristics while providing superior gloss retention. It is a perfect polymeric coating system for interior or exterior applications where the finished surface may be exposed to high wear, abrasion and ultra-violet light. 8001 will cure to an extremely dense, molecular structure and to a smooth, glass-like finish and maintains superior gloss-retention qualities. An aggregate can be incorporated into the topcoat to achieve varying degrees of slip resistant textures as necessary or as may be desired.

## TYPICAL USES

- Aircraft Hangars & Maintenance Floors
- Commercial Bakeries and Kitchens
- Laboratories and Research Floors
- School & Universities
- Automotive Show Room and Repair Areas
- Hospital and Health Care Facility Floors
- Manufacturing and Warehouse Floors
- Pharmaceutical Floors

## BENEFITS

- Complies with USDA, FDA, FSMA. See Crown Polymers Technical Bulletin: 3 Food and Beverage Compliance.
- LEED requirements. See Crown Polymers Technical Bulletin: 5 LEED information
- Cures to an inert finish. See Crown Polymers Technical Bulletin: 2 VOC Compliance

## COLORS



Clear Gloss

## LIMITATIONS

- Do Not apply direct to concrete
- Surface must be completely dry
- Do not let material puddle in low spots or joints
- Do not apply heavier than 300 Ft<sup>2</sup>/Gal
- Do not thin

## SHELF LIFE

1 Year from Date of Manufacture provided unopened

## STORAGE

Store in a dry environment at room temperature and out of direct sunlight.

## APPLICATION EQUIPMENT

Personal Protective Equipment  
Jiffy Mixing Paddle  
Drill  
18" x 1/4" Nap Shedless Roller Cover  
4" Chip Brush  
Spike Shoes

## SURFACE DIAGNOSTICS

Concrete must be structurally sound and free of all contaminants and bond breakers. Test concrete compressive strength using a Schmidt or Rebound Hammer to ensure substrate has compressive strength of 3500 psi or higher.

Perform a pH test using concrete pH test strips or meter to ensure substrate pH is between 9-12.  
Perform Moisture Test using either Calcium Chloride per ASTM F1869 or In-Situ Relative Humidity Probe per ASTM F2170 to ensure substrate has Moisture Vapor Emission Rate of 3 lbs or less and Relative Humidity of 80% or less. See CrownTech Bulletin 6: Moisture Mitigation Negative Side Moisture Barrier

If Moisture Vapor Emission Rate is above 3 lbs but below 25 lbs and relative humidity is above 80% but below 99% then apply 8303 Moisture Barrier Primer first at 16 mils with a coverage rate of 100 Ft<sup>2</sup>/ Gal.

## SURFACE PREPARATION

Use Mohs scratch test to determine concrete hardness for proper diamond bond selection.  
Concrete should be mechanically profiled and prepared to produce a Concrete Surface Profile (CSP) level between #2 & #4 per ICRI Guideline no. 310.2R. See CrownTech Bulletin 1: Concrete Surface Preparation.  
All perimeter areas of coating termination shall be masked for protection. Saw cut and key-in all termination points.

## SURFACE REPAIR

All depressions, divots and cracks should be profiled and free of dust and contaminants. Repair surface imperfections to reduce the ability to see the defect through the coating.  
Honor all dynamic (moving) joints, static joints may be filled, use dynamic joints as initiation and termination points during application process where needed.

## CLIMATE EVALUATION

Ambient and substrate temps should be above 50°F and a minimum of 5°F above Dew Point.  
Product temps should be between 70-80°F.  
Atmospheric Relative Humidity should not exceed 80%. See CrownTech Bulletin 7: Temperature & Relative Humidity

## REFER TO SAFETY DATA SHEETS (SDS) FOR SAFETY PRECAUTIONS.

SAFETY PRECAUTIONS MUST BE FOLLOWED  
DURING STORAGE, HANDLING AND USE.

## PERSONAL PROTECTIVE EQUIPMENT (PPE)

SHALL BE WORN AT ALL TIMES INCLUDING  
BUT NOT LIMITED TO LONG SLEEVE SHIRTS OR  
DISPOSABLE ARM SLEEVES, SAFETY GLASSES,  
DISPOSABLE NITRILE GLOVES, AND PROPERLY  
FITTED NIOSH RESPIRATORS

**ALL SOURCES OF IGNITION SHOULD  
BE TURNED OFF AND ENVIRONMENT  
SHOULD HAVE PROPER AND ADEQUATE  
VENTILATION DURING APPLICATION AND  
CURING PROCESS**

**MIXING AREA SHOULD BE PLACED ON OR IN  
CLOSE PROXIMITY TO PROJECT. AREA SHOULD  
BE SECURELY COVERED WITH PLASTIC,  
CARDBOARD OR TARP. STAGE MATERIALS,  
TOOLS AND CLEANING SUPPLIES IN MIXING  
AREA PRIOR TO APPLICATION PROCESS.**

**DO NOT MIX MORE MATERIAL THAN CAN BE  
APPLIED IN 20 MINUTES**

## MIXING PROCEDURE

- 1 Pre-Mix B-Component in its respective container using Jiffy mixer and drill at low RPMs for 30 seconds to ensure components are fully suspended.
- 2 Pre-Mix A-Component in its respective container using clean Jiffy mixer and drill at slow speeds for 30 seconds or until thoroughly homogeneous.
- 3 Transfer A-component and B-component at a mix rate of 1A:1B by volume into a clean 5-gal bucket and mix for 2-3 minutes at low RPMs being sure to scrape sides of the bucket with a stir stick ensuring both components are thoroughly blended

## COVERAGE RATE

350 ft<sup>2</sup>/ Gal @ 4.6 mils

COVERAGE RATE MAY VARY DEPENDING ON  
SUBSTRATE CONDITION

## WORKING TIME

15-25 Minutes @ 75°F

**WARMER AMBIENT, PRODUCT AND SURFACE  
TEMPERATURES WILL SHORTEN POTLIFE AND  
WORKING TIME.**

## APPLICATION PROCEDURE

- 1 Cut-in edges using a 4" chip brush. Do not allow wet edges to stand more than 10 minutes ahead of application of main body of floor.
- 2 Using paint tray dip and roll to apply material across the surface using a 18" x 1/4" nap mohair roller
  - Maintain wet edge
  - Always pour next mixed batch onto wet edge
  - Do not apply heavier than recommended coverage rates
- 3 Back roll the surface with 18" x 1/4" nap roller by walking into the wet material wearing spike shoes and roll the surface wall to wall with overlap perpendicular to your first pass
  - Do not overwork material



Allow coating to dry 4 Hrs @ 75°F  
Do not force dry.  
Recoat: 8-12 Hours  
Light Traffic: 24 Hours  
Heavy Traffic: 48 Hours  
Equipment Traffic: 72 Hours

## SLIP RESISTANCE

Skid-Resistance - Field (in situ) Wet Dynamic  
Coefficient of Friction (DCOF), ANSI A326.3. See Crown  
Polymers Technical Bulletin: 4 Coefficient of Friction.

## CLEAN-UP

Clean-up mixing station, tools, and equipment as required. Use acetone, a VOC exempt solvent, for cleaning up. Observe all legal, and health, and safety precautions when handling or storing solvents and materials, particularly in confined spaces. Make sure the working areas are well ventilated at all times during placement and curing time.

## DISPOSAL

Dispose of empty packaging and other waste in accordance with federal, state, provinces and local regulations.

## MAINTENANCE

Inspect the installed floor by spot cleaning and spot repairing the damaged or cracked areas. To prolong life of the flooring system, a daily maintenance program is highly recommended to ensure the floor is safe for its intended purposes. See Crown Polymers Technical Bulletin: 8 Care and Maintenance.

## TECHNICAL SUPPORT

For questions, contact a Crown Polymers Representative. Additional Support Documents are available from Crown Polymers, including brochures, application guidelines, videos and more. Visit [Crownpolymers.com](http://Crownpolymers.com) or contact Crown for additional resources

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