

PHYSICAL PROPERTIES

SOLIDS CONTENT	.....	100%
VOLUMETRIC MIX RATIO	.....	3A:2B
COVERAGE RATE	.....	100 ft ² /gal 16 Mils
APPLICATION TEMP	.....	50°- 90°F
POTLIFE 1 Gal mass @ 75°F	.....	20 Mins
DRY TIME @ 75°F	.....	8-10 Hours
RECOAT WINDOW	.....	12-24 Hours
FULL CURE	.....	7 Days
PACKAGING	.....	5 Gal Kit 25 Gal Kit

MECHANICAL PROPERTIES

SHORE D HARDNESS ASTM D2240	.....	75-80
TENSILE STRENGTH ASTM D2370	.....	6,230 p.s.i
ELONGATION ASTM D2370	.....	11%
ADHESION TO CONCRETE ASTM D7234	.....	400 p.s.i

CHEMICAL RESISTANCE

Refer to CrownTech Chemical Resistance Guideline Technical Bulletin No. 9

PRODUCT DESCRIPTION

8205 Oil Tolerant Primer is a 2-component low viscosity epoxy designed for use as a primer on concrete substrates that are contaminated with hydrocarbon oils, such as, petroleum products and their derivatives, motor oil, solvents, cutting oils, and hydraulics fluids. Also, the 8205 is an effective primer when the concrete surface is contaminated by animal fats or vegetable oils. 8205 possesses outstanding adhesion to contaminated concrete surfaces making it ideal for challenging oil and fat contaminated concrete surface applications. 8205 is not intended to be used where contamination is from non-hydrocarbon lubricants and oils, such as silicone or lithium oils, pastes, greases, and compounds.

TYPICAL USES

- General purpose primer
- Can be used on substrates contaminated with sodium, potassium and lithium silicate densifiers and curing agents
- Can be used over properly prepared damp concrete

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



LIMITATIONS

- Do not add pigments
- Higher ambient, surface and product temps will shorten working time
- May amber under UV exposure
- Will not bridge cracking
- 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 3/8" Nap Shedless Roller Cover
15-20 Mil Notched Squeegee
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 psi 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 psi but below 25 psi 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 Ft² / 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.

TEMPERATURE 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.

Relative Humidity should not exceed 80%. See CrownTech Bulletin 7: Temperature & Relative Humidity

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 3A:2B 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

100 Ft² / Gal @ 16 Mils

COVERAGE RATE MAY VARY DEPENDING ON SUBSTRATE POROSITY

WORKING TIME

25-30 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 **EPOXY SETS FASTER IN MASS, MIXED MATERIAL SHOULD NOT REMAIN IN BUCKET**
Pour a band of mixed material across the surface roughly 6-8" wide. Use 15-20 mil notched squeegee to gauge material across surface
 - 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 3/8" 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 8-10 Hrs @ 75°F
Do not force dry.
Recoat: 8-24 Hrs

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 or contact Crown for additional resources

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**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**