

PHYSICAL PROPERTIES

SOLIDS CONTENT	.....	100%
MIX RATIO	.....	Full Kit
COVERAGE RATE	.....	Primer: 160 ft ² /gal 10 MILS
APPLICATION TEMP	.....	50° - 90°F
POTLIFE 1 Qrt mass @ 75°F	.....	1 Hours
DRY TIME @ 75°F	.....	4-18 Hours
RECOAT WINDOW	.....	12-24 Hours
FULL CURE	.....	7 Days
PACKAGING	.....	1.1 Gal Kit

ELECTRICAL TRANSMISSION PROPERTIES

CONDUCTIVE RANGE 25,000 - 1,000,000 OHMS 2.5E4 - 1.0E6	.....	MEETS
BODY VOLT GENERATION <15 VOLTS	.....	MEETS
5,000 VOLT CHARGE DISSIPATION TO 0 VOLTS <0.1 SECONDS	.....	MEETS

CHEMICAL RESISTANCE

Refer to CrownTech Chemical Resistance Guideline Technical Bulletin No. 9

PRODUCT DESCRIPTION

8601 CrownPro Conductive primer is a two-component water based, high performance epoxy floor primer used conjunction with 8602 or 8603 CrownPro StaticShield. It meets ANSI/ESD 2020 and ANSI/ESD STM7.1 Standards. It is VOC compliant in all States and Provinces in North America.

TYPICAL USES

- Military/Aircraft/Aerospace
- Chemical Manufacturing
- Clean Rooms
- Areas containing flammables or explosives
- Data Center
- Packaging Lines
- Electronic Manufacturing & Assembly
- Hazardous Industries
- 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



LIMITATIONS

- Requires 320 Isolation Primer
- Will not bridge cracking

SHELF LIFE

6 Months 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
8-12 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.

ONLY MIX FULL KIT AND DO NOT MIX MORE MATERIAL THAN CAN BE APPLIED IN 20 MINUTES

MIXING

- 1 Pre-mix A-Component and mix using Jiffy mixer and drill at slow speeds for 30 seconds until pigment is uniform.
- 2 Add B-Component to the A-Component and mix for 2 minutes.
- 3 Add 1 Quart clean water and mix again for 2 minutes being sure to scrape sides of the bucket with a stir stick ensuring both components are thoroughly blended

COVERAGE RATE

160 Ft² / Gal @ 10 mils

COVERAGE RATE MAY VARY DEPENDING ON SUBSTRATE POROSITY

WORKING TIME

20-30 Minutes @ 75°F

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

APPLICATION PROCEDURE

320 ISOLATION PRIMER MUST APPLIED AND DRY PRIOR TO 8601 APPLICATION

- 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.

EPOXY SETS FASTER IN MASS, MIXED MATERIAL SHOULD NOT REMAIN IN BUCKET

- 2 Pour a band of mixed material across the surface roughly 6-8" wide. Use 8-12 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
 - Do not allow more than 10 minutes before next mixed batch
- 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 4-18 Hrs @ 75°F
Do not force dry.
Once dry, Install grounding tape as per specification
Recoat: 12-24 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

DISCLAIMER

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any product limitations are the only ones which may exist. Neither Seller nor Manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the products. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the Manufacturer, unless in writing and signed by an authorized corporate officer of Manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Manufacturer makes no claim that these tests or any other tests accurately represent all environments. Manufacturer is not responsible for typographical errors.



SCAN QR CODE FOR FULL DISCLAIMER AND LIMITED WARRANTY INFORMATION

**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**