

CrownPro™ 7000

TECHNICAL DATA SHEET

Product Number: 717

Revision Date: 09/25/17

An Aliphatic Polyaspartic Polyurea Topcoat

DESCRIPTION

CrownPro 7000 is a high solids, aliphatic polyaspartic polyurea with excellent retention, gloss and UV stability characteristics. It can be applied at any thickness of 8-12 mils (200-300 microns) in a single pass on horizontal surfaces or multiple passes on vertical surfaces. CrownPro 7000 is quick curing and specifically formulated to be installed in thin film applications.

RECOMMENDED USE

- Concrete
- Plywood
- Cold Storage Areas
- Industrial Warehouses
- Chemical Plants
- Off-Shore Oil Platforms
- Steel
- Plastic
- Food Processing Areas
- Pulp and paper Mills
- Fertilizer Plants
- Pipeline Barges

ADVANTAGES

- Quick Cure
- High Tensile Strength
- Abrasion Resistant
- Topcoat over aromatic polyurea, polyurethane and epoxy applications ranging from 35°F to 130°F, service temperature 0°F to 200°F
- UV Resistant For Superior Gloss Retention
- Meets California VOC and AQMD Requirements, including SCAQMD areas
- Versatile Application: Can be applied by squeegee, phenolic resin core roller, or through a Pressure Pot
- Color Stable
- Very Durable
- Excellent Weatherability

COLORS

Clear, and Polyaspartic Colors

PACKAGING

- 2 gallon kit (7.5 liter): 1 gallon (3.78 liters) Part-A and 1 gallon (3.78 liters) can Part-B.
- 10 gallon kit is not an in-stock item and is available with advanced notice. Contact Crown Polymers for availability.

MIXING:

CrownPro 7000 may not be diluted under any circumstance. Proportions are premeasured. CrownPro 7000 Part-A and Part-B should be mixed individually before combining. Add Part-B to Part-A while mixing, using a mechanical mixer at medium speed. Mix until a homogeneous mixture and color is obtained (at least 5 minutes) and mix frequently during application to maintain uniform color. Do not thin. Do not mix in an up and down motion.

Use care to scrape the sides of the container to ensure that no unmixed material remains.

Use caution not to whip air into the material as this may result in pinhole blisters and/or shortened pot life. Do not mix any material that cannot be used within 20-30 minutes.

SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Refer to product Application Bulletin for det-ailed surface preparation information.

Minimum recommended surface preparation:

Atmospheric:

SSPC-SP6/NACE 3, 2 mils (50 microns) profile

Concrete & Masonry:

SSPC-SP13/NACE 6 or ICRI No. 310.2 CSP 3-5.
Primer required.

APPLICATION

CrownPro 7000 can be applied by phenolic resin core roller, a rubber squeegee and back-rolled, or through a Pressure Pot. CrownPro 7000 should be applied at a minimum film thickness of 5 mils. It should be noted that the heavier the application, the longer the curing process takes.

A phenolic resin core roller may be used, but extra care should be taken not to cause air bubbles.

CURING

At 75°F (24°C) and 50% relative humidity, allow each coat to cure 3-4 hours. Cure time will vary depending on temperature and humidity. Allow 6 hours before permitting light pedestrian traffic and at least 24-48 hours before permitting heavy pedestrian traffic on to the finished surface. Uncured CrownPro 7000 is very sensitive to heat and moisture. Higher temperatures and/or high humidity will accelerate the cure time. Use caution in batch sizes and thickness of application. If more than 48 hours passes between coats, re-prime the surface with CrownPrime U before proceeding. Low temperature and/or low humidity extend the cure time.

EQUIPMENT CLEANUP

Equipment should be cleaned with an environmentally safe solvent, as permitted under local regulations, immediately after use.

STORAGE

CrownPro 7000 has a shelf life of one (1) year from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

LIMITATIONS

The following conditions must not be coated with Crown Polymers deck coatings or systems: split slabs, buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, magnesite, and lightweight concrete. On grade slabs may receive Crown Polymers system coatings provided a moisture-vapor transmission test is first performed. Please contact Crown Polymers technical

department with the results.

With regard to coating asphalt surfaces, please contact Crown Polymers technical department.

Surfaces must be dry, clean and free of foreign matter. Clear coating may turn opaque and cloudy due to moisture penetration, especially in exterior applications. Surface may be slippery when wet. Containers that have been opened must be used as soon as possible. Do not dilute under any circumstance.

WARNING

This product contains Isocyanates.

FOR INDUSTRIAL USE ONLY

*KEEP OUT OF REACH OF CHILDREN KEEP
CONTAINERS TIGHTLY CLOSED*

Technical Data (based on draw down film)

CrownPro 7000 - Clear

DESCRIPTION	PHYSICAL PROPERTIES
Mix Ratio by Volume	1A : 1B
Coverage Rate	1 gal/100 sq. ft.
Dry Film Thickness, exclusive of aggregate	50 ± 2 mils 381 ± 50 microns
Pot Life @ 75°F (24°C), 50% R.H.	30-40 minutes
Hardness, ASTM D-2240	65 ± 2 Shore D
Tear Resistance, Die C, ASTM D-412	450 ± 50pli 78.8 ± 8.8 kN/m
Tensile Strength, ASTM D412	3000 — 200 psi 20.7 — 1.4 Mpa
Ultimate Elongation, ASTM D412	70 ± 10%
Specific Gravity	
Side A	1.14
Side B	1.06
Total Solids by Weight, ASTM D2369	90 ± 2%
Total Solids by Volume, ASTM D2697	91 ± 2%
Viscosity at 75°F (24°C)	
Side A	300 ± 100 cps
Side B	1000 ± 300 cps
Volatile Organic Compounds, ASTM D2369-81	0 lb/gal 0 gm/liter

Technical Data (based on draw down film)

CrownPro 7000 - PIGMENTED

DESCRIPTION	PHYSICAL PROPERTIES
Mix Ratio by Volume	1A : 1B
Coverage Rate	1 gal/100 sq. ft.
Dry Film Thickness, exclusive of aggregate	15 ± 2 mils 381 ± 50 microns
Pot Life @ 75°F (24°C), 50% R.H.	30-40 minutes
Hardness, ASTM D-2240	65 ± 2 Shore D
Tear Resistance, Die C, ASTM D-412	400 ± 50pli 70.1 ± 8.8 kN/m
Tensile Strength, ASTM D412	3000 — 200 psi 20.7 — 1.4 Mpa
Ultimate Elongation, ASTM D412	50 ± 10%
Specific Gravity	
Side A	1.14
Side B	1.28
Total Solids by Weight, ASTM D2369	91 ± 2%
Total Solids by Volume, ASTM D2697	91 ± 2%
Viscosity at 75°F (24°C)	
Side A	300 ± 100 cps
Side B	1400 ± 300 cps
Volatile Organic Compounds, ASTM D2369-81	0 lb/gal 0 gm/liter

DISCLAIMER

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests. The accuracy and completeness of such tests are not guaranteed and are not to be construed as a warranty, expressed or implied. It is the responsibility of the user to document information and tests to determine the intent of the product for ones' own use. The application, job conditions and user assumes all risks and liability resulting from use of the product. We do not suggest or guarantee any hazards listed herein 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 product. Recommendations or statements, whether in written or verbal, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the 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 Crown Polymers makes no claim that these tests or any other tests accurately represent all environments. Not responsible for any typographical errors.

LIMITED WARRANTY

Crown Polymers warrants its products to be free of manufacturing defects and meets all Crown Polymers current published physical properties. Crown Polymers' sole responsibility shall be to replace the portion of any product proved to be defective. There are no other warranties by Crown Polymers of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Crown Polymers shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. Crown Polymers shall not be responsible for the use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee pertaining to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application will be issued. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. Crown Polymers reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

