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CrownPro™ 7000

Product Description Sheet No. 717

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
- Color Stable
- Very Durable
- Excellent Weatherability
- 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

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.

Technical Data is based on draw down film
CrownPro 7000 - CLEAR

Mix Ratio by Volume	1A : 1B
Coverage Rate	1 gal/100 sq. ft.
Dry Film Thickness, exclusive of aggregate	15 mils 381 microns
Pot Life at 75°F (24°C), 50% R.H.	30-40 minutes
Hardness, ASTM D-2240	65 ± 2 Shore D
Tear Resistance, Die C, ASTM D-624	450 ± 50 pli 78.8 ± 8.8 kN/m
Tensile Strength, ASTM D-412	3000 ± 200 psi 20.7 ± 1.4 Mpa
Ultimate Elongation, ASTM D-412	70 ± 10%
Specific Gravity, Side A Side B	 1.14 1.06
Total Solids by Weight, ASTM D-2369	90 ± 2%
Total Solids by Volume, ASTM D-2697	91 ± 2%
Viscosity at 75°F (24°C), Side A Side B	 300 ± 100 cps 1000 ± 300 cps
Volatile Organic Compounds, ASTM D-2369-81	 0 lb/gal 0 gm/liter

Technical Data is based on draw down film
CrownPro 7000 - PIGMENTED

Mix Ratio by Volume	1A : 1B
Coverage Rate	1 gal/100 sq./ ft.
Dry Film Thickness, exclusive of aggregate	15 mils 381 microns
Pot Life at 75°F (24°C), 50% R.H.	30-40 minutes
Hardness, ASTM D-2240	65 ± 2 Shore D
Tear Resistance, Die C, ASTM D-624	400 ± 50 pli 70.1 ± 8.8 kN/m
Tensile Strength, ASTM D-412	3000 ± 200 psi 20.7 ± 1.4 Mpa
Ultimate Elongation, ASTM D-412	50 ± 10%
Specific Gravity, Side A Side B	 1.14 1.28
Total Solids by Weight, ASTM D-2369	91 ± 2%
Total Solids by Volume, ASTM D-2697	91 ± 2%
Viscosity at 75°F (24°C), Side A Side B	 300 ± 200 cps 1400 ± 300 cps
Volatile Organic Compounds, ASTM D-2369-81	 0 lb/gal 0 gm/liter

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 detailed 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.

Surface Preparation Standards

	Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal		Sa 3	Sa 3	SP 5	1
Near White Metal		Sa 2.5	Sa 2.5	SP 10	2
Commercial Blast		Sa 2	Sa 2	SP 6	3
Brush-Off Blast		Sa 1	Sa 1	SP 7	4
Hand Tool Cleaning	Rusted Pitted & Rusted	C St 2 D ST 2	C ST 2 D ST 2	SP 2 SP 2	- -
Power Tool Cleaning	Rusted Pitted & Rusted	C ST 3 D St 3	C ST 3 D St 3	SP 3 SP 3	- -

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

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