



Product Information Sheet

ESI 6000 Satin 2K Waterborne Polyurethane Coating System

PRODUCT DESCRIPTION

ESI 6000 is a two component waterborne polyurethane coating system. It provides outstanding appearance, good chemical and resistance as well as excellent physical properties. This system has been approved by the Canadian Food Inspection Agency (CFIA).

USE

- Grocery and department stores.
- Hospitals and healthcare facilities.
- Museums, banks and institutional structure.
- Offices and government buildings.
- Schools, colleges and universities.
- Commercial and general service industrial environments.

ADVANTAGES

- VOC level: 31 g/L
- Fast drying
- Early water resistance
- Long pot life
- Excellent adhesive properties, allowing application onto other substrates
- Superior chemical resistance
- Superior U.V. resistance
- Outstanding appearance

TECHNICAL DATA

Colour	Part A	Part B	Part C
	Upon Request	Amber	Upon Request
Recommended Thickness	ESI 6000	4-6 mils (400 - 600 ft ² /gal)	
Shelf Life	12 months in original unopened factory sealed containers. Keep away from extreme cold, heat, or moisture. Keep out of direct sunlight and away from fire hazards.		
Mix Ratio, by volume	A:B = :1		
Mix Ratio, by weight (grams)	A:B = 100:25.7		
Pot Life (454 g)	1-3 hours @ 25°C		
PROPERTIES @ 23°C (73°F) AND 50% R.H.			
Solids Content, by volume	Part A	Part B	Mix
	60-70%	60-70%	60-70%
Solids Content, by weight	Part A	Part B	Mix
	60-70%	60-70%	60-70%
Density (kg/L)	Part A	Part B	Mix
	1.04	1.07	
Thinner Recommended	Water		
Recoat window	4-6 hours		
Recommended Thickness	4-6 mils (400 - 600 ft ² /gal)		
Pedestrian traffic	12-24 hours		
Normal traffic	24-48 hours		
Heavy Equipment traffic	>72 hours		



PROPERTIES @ 23°C (73°F) AND 50% R.H. (cont'd)

Abrasion Resistance, ASTM D4060	0.3 g loss
Taber Abraser CS-17 Wheel / 1000g (2.2 lbs.) /1000 cycles	
Water absorption, ASTM D570	1.5%
Hardness (Shore D), ASTM D2240	70-75
Viscosity @ 25°C (Zahn cup #4, seconds)	18-22
Bond Strength, ASTM D4541	>300 (substrate ruptures)
Impact Resistance: direct / reverse (lbs), ASTM D-2794	16/2

* Please note, that the indicated mileage is calculated for flat surfaces. A porous or imperfect surface will require more material in order to cover the surface area. *

** Please note that the indicated viscosity is for clear product only. Any addition of colorant may affect the viscosity.

SURFACE PREPARATION

The surface to be coated must be well primed. Remove all surface contaminants such as dust, coatings, laitance, grease, oil, dirt, and curing agents by mechanical means such as shot blasting or diamond grinding. Surface should be free of water. Porous surfaces may require multiple priming.

MIXING

Materials should be pre-conditioned to a minimum of 10°C (59°F) prior to use. Thoroughly mix each component separately using paddle mixers and a drill for a minimum of 2 minutes to place the solids content evenly in suspension. Pour component B into component A using the proper mixing ratio of 4A:1B by volume. Mix both components for at least 3 minutes using a drill at low revolution (300 to 450 rpm) to reduce trapping of air. While mixing, scrape bottom and walls of container at least once to ensure a homogeneous mix. Only prepare quantity that may be applied during pot life of mixture.

APPLICATION

Apply mixed product on the prepared surface tightly (thin film) using a rubber rake and pass a roller to obtain a uniform coating. Avoid creating puddles.

CLEANING

Clean all tools and materials with soapy water followed by a solvent rise. Wash hands and skin carefully with warm soapy water. Once product has hardened, it may only be removed through mechanical means.

RESTRICTION

- Minimum/Maximum temperature of substrate: 10°C / 30°C (50 °F / 86 °F).
- Maximum relative humidity during application and curing: 80 %.
- Substrate temperature must be 3°C (5.5°F) above dew point measured.
- Humidity content of substrate must be < 4 % when coating is applied.
- Do not apply on porous surfaces where a transfer of humidity may occur during application.
- Avoid exterior use on substrates at ground level.
- Protect from humidity, condensation and contact with water during the 24 hour initial curing period.
- Surface may discolor in areas exposed to regular ultraviolet light.



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HEALTH AND SAFETY

In case of skin contact, wash with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult a physician. For respiratory irritation, move affected person to fresh air. Remove contaminated clothes and clean before reuse.

Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke an irritation. Avoid eye contact. Contact with product may cause serious burns. Avoid breathing vapors released from this product. This product is a strong sensitizer. Wear safety glasses and chemical resistant gloves. A breathing apparatus filtering organic vapours approved by the NIOSH/MSHA is recommended. Work in well ventilated area.

Consult the material safety data sheet for further information.

IMPORTANT NOTICE

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