

DESCRIPTION

PE-OP is a solvent-free, two component epoxy coating system with orange peel appearance that can be light, medium or aggressive. It exhibits a very physical properties and unique finish. This system has been approved by the Canadian Food Inspection Agency (C.F.I.A).

PRIMARY APPLICATIONS

- Wet and dry process areas.
- Commercial and institutional buildings.
- Health care facilities.
- Laboratories.
- Moderate mechanical and chemical resistance areas.
- Recreational centers.
- Showroom areas.

ADVANTAGES

- Dense surface resistant to bacteria and moisture and easy to clean.
- May apply several layers onto itself.
- Contains no solvent (VOC compliant), allowing for interior application without harmful odors.
- Excellent adhesive properties, allowing application on many substrates.

TECHNICAL DATA

PACKAGING	11.35 L (3 US GAL.) AND 56.7 L (15 US GAL.)
COLOR	PART A: UPON REQUEST, PART B: LIGHT AMBER, MIX: UPON REQUEST
RECOMMENDED THICKNESS	PRIMER: 4-6 MILS, PE-OP: 8-12 MILS
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 = 2:1
MIX RATIO, BY WEIGHT	CLEAR A:B = 100:48-50 COLORS A:B = 100:45-49
POT LIFE (454 G)	20-30 MINUTES @ 25°C

PROPERTIES @ 23°C (73°F) AND 50% R.H.

SOLIDS CONTENT, BY WEIGHT	100 %		
SOLIDS CONTENT, BY VOLUME	100%		
DENSITY (KG/L)	PART A 1.01 (CLEAR) 1.02-1.06 (COLORS)	PART B 0.96 (LIGHT) 1.00 (AGGRESSIVE)	MIX - -
THINNER RECOMMENDED	SCT-0001 10 °C (50 °F)	20 °C (68 °F)	30 °C (86 °F)
OPEN TIME ON SUBSTRATE (MINUTES)	80	50	35
WAITING TIME BETWEEN COATS (HOURS) MIN/MAX	30/72	8/48	6/24
CURING TIMES (DAYS)			
FOOT TRAFFIC	2	1	18 HOURS
LIGHT TRAFFIC	4	2	2
NORMAL TRAFFIC/ CHEMICAL EXPOSURE	10	7	5

Times are approximate and will be affected by changing ambient conditions, especially changes in temperature and relative humidity.

BOND STRENGTH (PSI), ASTM D4541	>300 (SUBSTRATE RUPTURES)		
WATER ABSORPTION (%), ASTM D570	0.3		
HARDNESS (SHORE D), ASTM D2240	75-85		
ABRASIVE RESISTANCE (CS17 / 1000 CYCLES/ 1000 G), ASTM D4060	0.10 G LOSS		
VISCOSITY @ 25°C (CPS)	CLEAR	PART A 1200 - 1400	PART B 125000 - 150000 125000 - 150000 125000 - 150000
	COLORS	2000 - 4000	125000 - 150000 125000 - 150000 125000 - 150000
			MIX 10 MM ROLLER (LIGHT ORANGE PEEL) 20 MM ROLLER (MEDIUM ORANGE PEEL) HONEYCOMB ROLLER (AGGRESSIVE PEEL) 10 MM ROLLER (LIGHT ORANGE PEEL) 20 MM ROLLER (MEDIUM ORANGE PEEL) HONEYCOMB ROLLER (AGGRESSIVE PEEL)
TRACTION RESISTANCE (PSI), ASTM D638	1000		
COMPRESSION RESISTANCE (PSI), ASTM D695	9000		
ELONGATION %, ASTM D638	6.7 %		

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 same surface area.

SURFACE PREPARATION

OLD CONCRETE

Concrete surface must be cleaned and mechanically prepared using shotblasting, sand blasting, and/or diamond grinding. All oils, sealers, curing agents, waxes and fats must be removed prior to product application. Do not apply onto wet substrates. Chloride, moisture, and pH levels should be checked prior to application. WECT-DP primer is suggested prior to application on porous concrete substrates. All cracks and substrate imperfections should be filled and repaired with ECT-CF prior to application.

NEW CONCRETE

New concrete should be allowed to cure for a minimum of 30 days. Compression resistance of concrete must be at least 25 MPa (3625 lbs./inch²) after 28 days and traction resistance must be at least 1,5 MPa (218 lbs./inch²). Shotblasting, sand blasting, and/or diamond grinding is required to remove the surface laitance that appears during the concrete finishing and curing process. WECT-DP primer should be used to seal porous concrete surfaces prior to application. All cracks and substrate imperfections should be filled and repaired with ECT-CF prior to application.

MIXING

Materials should be pre-conditioned to a minimum of 15°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 2A: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 with a 10mm, 20mm or honeycomb roller, depending on desired orange peel texture.

CLEANING

Clean all tools and materials with appropriate cleaner before the product cures. Wash hands and skin carefully with warm soapy water. Once product has hardened, it may only be removed through mechanical means.

RESTRICTIONS

- Minimum/Maximum temperature of substrate: 15 °C / 30 °C (59 °F / 86 °F).
- Maximum relative humidity during application and curing: 85 %.
- 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.
- Protect from humidity, condensation and contact with water during the 24 hour initial curing period.
- Avoid exterior use on substrates at ground level
- Surface may discolor in areas exposed to regular ultraviolet light

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 with a doctor. For respiratory problems, transport victim to fresh air. Remove contaminated clothes and clean before reuse. For more information, consult the material safety data sheet.

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 may cause serious burns. Avoid breathing vapors release from this product. This product is a strong sensitizer. Wear safety glasses and chemical resistant gloves. A breathing apparatus filtering organic vapors approved by the NIOSH/MSHA is recommended. Predict suitable ventilation.

Consult the material safety data sheet for further information.

IMPORTANT NOTICE

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