

**CTM**  
ADHESIVES



# ECTR

## Epoxy coating system

### DESCRIPTION

ECTR is a solventless, two component epoxy coating system. It exhibits very good appearance and physical properties. This system has been approved by the Canadian Food Inspection Agency (CFIA).

### ADVANTAGES

- Dense surface resistant to bacteria and moisture and easy to clean
- May apply several layers on itself
- Contains no solvent (no VOC), allowing for interior application without harmful odors
- Excellent adhesive properties, allowing application on other firm and hard coating, as well as a good bond to the substrate

### COLOR

Upon request

### OPERATION

#### SURFACE PREPARATION:

Concrete surface must be clean. Remove any dust, milt, grease, oil, dirt, curing agents, wax, foreign substances and disaggregated substances by BLASTRAC or by other approved methods. Compression resistance of concrete must be at least 25 MPa (3625 lbs/inch<sup>2</sup>) after 28 days and traction resistance must be at least 1,5 MPa (218 lbs/inch<sup>2</sup>).

#### MIX:

Mix each component separately. Pour component B into component A using the proper mixing ratio. 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.

#### APPLICATION:

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

#### CLEANING:

Clean all tools and materials with the cleaner/thinner for epoxies. 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: 10 °C / 30 °C (50 °F / 86 °F).
- Maximum relative humidity during application and curing : 85 %.
- Substrate temperature must be above 3 °C (5.5 °F) at 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.

## PHYSICAL PROPERTIES

	Part A	Part B	Mixed
Color	Upon request	Clear to Amber	Upon request
Viscosity (cps) @ 25°C <b>(colors)</b>	3000 - 4000	700 - 900 (type I) 700 - 900 (type II) 700 - 900 (type III)	1400 - 2000 (type I) 1400 - 2000 (type II) 1400 - 2000 (type III)
Viscosity (cps) @ 25°C <b>(clear)</b>	1300 - 1700	700 - 900 (type I) 700 - 900 (type II) 700 - 900 (type III)	1000 - 1400 (type I) 1000 - 1400 (type II) 1000 - 1400 (type III)
Solids by weight (%)	100	100	100
Solids by volume (%)	100	100	100
Thinner	SCT-0001	SCT-0001	SCT-0001
Density (kg/L)	1.05 - 1.10 <b>(clear)</b> 1.10 - 1.15 <b>(colors)</b>	0.9 - 1.00	-
Mixing ratio by volume	2	1	-
Mixing ratio by weight:			
Clear	100	41 - 48	-
Colours	100	39 - 45	-
Pot life (454 g @ 25°C)	-	-	20 - 30 minutes
Recoat window	-	-	8 - 12 hours
Mileage per gallon* (8 mils thickness)	-	-	200 ft <sup>2</sup>
Recommended thickness:			
Primer	-	-	4 - 6 mils
Top coat	-	-	8 - 12 mils
Pedestrian traffic	-	-	12 - 24 hours
Normal traffic	-	-	24 - 48 hours
Heavy equipment traffic	-	-	> 48 hours
Storage	12 months	12 months	-

**\* 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 mileage.**

## MECHANICAL PROPERTIES (TYPE I)

	Test	Result
Compression resistance (psi)	ASTM D695	14000
Traction resistance (psi)	ASTM D638	6500
Elongation (%)	ASTM D638	6.7
Bond resistance (psi)	ASTM D4541	>300 (Substrate ruptures)
Hardness (Shore D)	ASTM D2240	85 - 90
Abrasive resistance ( CS17 / 1000 cycles / 1000 g)	ASTM D4060	0.10 g
Water absorption (%)	ASTM D570	0.3

## MECHANICAL PROPERTIES (TYPE II)

	Test	Result
Compression resistance (psi)	ASTM D695	14000
Traction resistance (psi)	ASTM D638	6500
Elongation (%)	ASTM D638	6.7
Bond resistance (psi)	ASTM D4541	>300 (Substrate ruptures)
Hardness (Shore D)	ASTM D2240	85 - 90
Abrasive resistance ( CS17 / 1000 cycles / 1000 g)	ASTM D4060	0.10 g
Water absorption (%)	ASTM D570	0.3

## MECHANICAL PROPERTIES (TYPE III)

	Test	Result
Compression resistance (psi)	ASTM D695	14000
Traction resistance (psi)	ASTM D638	6500
Elongation (%)	ASTM D638	6.7
Bond resistance (psi)	ASTM D4541	>300 (Substrate ruptures)
Hardness (Shore D)	ASTM D2240	75 - 85
Abrasive resistance ( CS17 / 1000 cycles / 1000 g)	ASTM D4060	0.10 g
Water absorption (%)	ASTM D570	0.3

## 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 and corrosive 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 eye contact. 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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