



**CTM**

**DISTRIBUTION**

**TECHNICAL DATA SHEET**

**CTM V2 METALLIC**

### DESCRIPTION

CTM V2 METALLIC is a high-solids, special-grade, two-component self-leveling epoxy coating designed to restore concrete floors and improve their appearance. It can be tinted with various colors or metallic powders to produce opaque, glossy finishes. The system offers excellent mechanical properties, strong chemical resistance, and long-lasting durability while maintaining its artistic aesthetic. It also enhances penetration when used as a primer on dense, hard-to-grind substrates. This system complies with the Canadian Food Inspection Agency (C.F.I.A.) requirements.

### ADVANTAGES

- Dense surface resistant to bacteria and moisture and easy to clean.
- May apply several layers onto itself with excellent adhesion.
- Contains no solvent with a very low VOC content, 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.
- Can be applied to plywood.

### TECHNICAL DATA

<b>Packaging</b>	11.35 L (3 US gal), 56.7 L (15 US gal)
<b>Color</b>	Part A: Upon Request Part B: Clear to Amber
<b>Recommended Thickness</b>	Primer: 6 – 8 mils For metallic pigment application: 32 mils
<b>Coverage @ 8 mils</b>	200 ft <sup>2</sup> /gal
<b>Coverage @ 32 mils</b>	50 ft <sup>2</sup> /gal
<b>Mix Ratio (by volume)</b>	A:B:C = 7.56 L / 3.78 L / 1L (2A:1B)
<b>Mix Ratio (by weight)</b>	A:B:C = 8.6 L / 3.78 L / Vary (2A:1B)
<b>Gel Time (100 g @ 25°C)</b>	45 - 60 minutes
<b>Pot Life</b>	15 - 20 minutes
<b>Solids Content</b>	100% by weight and volume
<b>VOC (g/L)</b>	Part A: 30 Part B: 15 Mix: 45
<b>Thinner Recommended</b>	Xylene
<b>Shelf Life</b>	12 months (unopened, away from extremes)
<b>Viscosity @ 25°C (77°F) (cP)</b>	Clear: A: 1500 – 1800, B: 60 - 65, Mix: 650 - 750
<b>Specific Gravity</b>	Clear: A: 1.14 – 1.16, B: 0.98

### Physical Properties @ 23°C (73°F), 50% R.H.

<b>Bond Strength (psi) (ASTM D4541)</b>	>300 (substrate rupture)
<b>Water Absorption (%) (ASTM D570)</b>	0.3
<b>Abrasive Resistance (ASTM D4060)</b>	0.10 g (CS17, 1000g, 1000 cycles)
<b>Hardness (Shore D), ASTM D2240</b>	85 - 90
<b>Tensile Strength (psi) (ASTM D638)</b>	6500
<b>Compressive Strength (ASTM D695)</b>	11000 - 12500
<b>Elongation (%), ASTM D638</b>	3 - 5
<b>Coefficient of Friction (ASTM D1894)</b>	0.5–0.7
<b>Fire Rating (CAN/ULC S102 / ASTM E84)</b>	Flame Spread: 5; Smoke Developed: 94 (Class A)

### PRIMARY APPLICATIONS

- Industrial facilities
- Commercial spaces
- Decorative and metallic floors
- Institutional buildings
- Food-safe environments (CFIA compliant)

### CURING DETAILS

Temperature	Foot Traffic	Light Traffic	Full Cure
10°C (50°F)	30 hours	5 days	10 days
20°C (68°F)	24 hours	3 days	7 days
30°C (86°F)	16 hours	2 days	5 days
<b>Before Applying CTM V2 over primer</b>			
	<b>Minimum</b>	<b>Max</b>	
10°C (50°F)	N.A	N.A	
20°C (68°F)	12 hours	24 hours	
30°C (86°F)	6 hours	24 hours	
<b>Before Applying Second Coat of CTM V2</b>			
	<b>Minimum</b>	<b>Max</b>	
10°C (50°F)	30 hours	2 days	
20°C (68°F)	24 hours	24 hours	
30°C (86°F)	16 hours	24 hours	

## SURFACE PREPARATION

### Old Concrete

Concrete surface must be cleaned and mechanically prepared using shotblasting 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. CTM primer is suggested prior to application on porous concrete substrates. All cracks and substrate imperfections should be filled and repaired with CTM crack filler 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./inch<sup>2</sup>) after 28 days and traction resistance must be at least 1,5 MPa (218 lbs./inch<sup>2</sup>). Shotblasting and or diamond grinding is required to remove the surface laitance that appears during the concrete finishing and curing process. CTM primer should be used to seal porous concrete surfaces prior to application. All cracks and substrate imperfections should be filled and repaired with CTM crack filler prior to application.

## MIXING

Materials should be pre-conditioned to a minimum of 10°C (50°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.

### For Metallic Application:

Add the Metallic Pigment (Part C) to the Resin (Part A) and mix thoroughly until fully homogeneous. Add the Hardener (Part B) using the correct mixing ratio of 2A:1B by volume. Mix all components for at least 3 minutes using a drill with a low-speed mixer (300–450 RPM) to minimize air entrapment. Scrape the sides and bottom of the container at least once during mixing to ensure a consistent blend. Then apply the product on the floor

Note: Only mix the quantity that can be applied within the product's pot life.

## 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 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: 15°C / 30°C (59°F / 86°F).
- Maximum relative humidity during application and curing: 85%.
- Substrate temperature must be 15°C (59°F).
- 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.

## 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 irritations, move affected person outdoors to fresh air. Remove contaminated clothes and wash before reuse.

Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke irritation. Avoid eye contact.

Contact with product may cause severe 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 vapors approved by the NIOSH/MSHA is recommended. Always work in a properly ventilated area.

**\*Consult the material safety data sheet for further information.\***

## IMPORTANT NOTICE

All statements, recommendations and technical information contained in this document are accurate to the best knowledge of CTM DISTRIBUTION. The data relates only to the specific material designated herein. It may not be valid if used in combination with any other materials. It is the users' responsibility to verify suitability of this information for their own particular use, and to test this product before use. CTM DISTRIBUTION. assumes no legal responsibility for use upon these data. CTM DISTRIBUTION. assumes no legal responsibility for any direct, indirect, consequential, economic, or any other damage except to replace the product or refund the purchase price as set out in the purchase agreement.