

# CHEM 100 REGULAR™

Epoxy Coating System, Self-Leveling, 100% Solids  
DCC Master Format™ 09 67 00 (REVISED VERSION 2.3: NOVEMBER 2021)

**CHEMTEC**  
EPOXY COATINGS

## Product Description

CHEM 100 REGULAR™ a solvent-less, two component epoxy coating system. It exhibits very good appearance and chemical and physical properties. This system has been approved by the Canadian Food Inspection Agency (C.F.I.A)

## Advantages

- ☑ Dense surface resistant to bacteria and moisture and easy to clean
- ☑ May apply several layers on itself with excellent adhesion
- ☑ Contains no solvent with a very low VOC content (VOC = 88g/litres), allowing for interior application without harmful odors
- ☑ Excellent adhesive properties, allowing on other firm and hard coating, as well as a good bond to the substrate

## Technical Data

Packaging	1 US GAL, 2 US GAL, 3 US GAL, 15 US GAL, 150 US GAL, 750 GAL		
Color	Part A Upon Request	Part B Clear to Amber	Part C Upon Request
Recommended Thickness	Primer 6-8 mils	Finish Coat 8-12mils	
Mileage per gallon (8 mils thickness)	200 ft <sup>2</sup>		
Mileage for Slurry Application (50% Silica Sand) (12 mils thickness)	125 ft <sup>2</sup>		
Mileage for Trowel Epoxy Application (85% Silica Sand) (24 mils application)	60 ft <sup>2</sup>		

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=100:41-48
Colors	A:B=100:39-45
Pot Life (454 g)	40-50 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	Part B	Mix
Clear	1.05-1.10	0.9-1.0	-
Colors	1.10-1.15	0.9-1.0	-
Thinner Recommended	SCT-0001		
Waiting Time/Overcoatability			
Before applying CHEM 100 REGULAR over primer	Substrate Temperature	Minimum	Maximum
	+10 °C	24 hours	3 days
	+20 °C	12 hours	2 days
+30 °C	6 hours	1 day	
Before applying second Coat of CHEM 100 REGULAR over primer	Substrate Temperature	Minimum	Maximum
	+10 °C	30 hours	3 days
	+20 °C	24 hours	2 days
+30 °C	16 hours	1 day	



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Curing Details	Substrate Temperature	Foot Traffic	Light Traffic	Full Cure
	+10 °C	30 hours	5 days	10 days
	+20 °C	24 hours	3 days	7 days
	+30 °C	16 hours	2 days	5 days
Times are approximate and will be affected by changing ambient conditions, especially changes in temperature and relative humidity				
Board Resistance (psi), <b>ASTM D4541</b>	>300 (substrate ruptures)			
Permeability (%), <b>ASTM D570</b>	0.3%			
Hardness (Shore D), <b>ASTM D2240</b>	85-90			
Abrasive resistance, <b>ASTM D4060 (CS17/100 cycles/1000g)</b>	0.10g			
Viscosity @ 25 °C	Part A	Part B	Mix	
	Clear	1200-1400	200-400	650-700
	Colors	1400-1600	200-400	1200-1400
Traction Resistance (psi), <b>ASTM D638</b>	6500			
Compressive Strength (psi MPa), <b>ASTM D6595</b>	14000			
Elongation % <b>ASTM D638</b>	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 mileage\*

## Surface

### Old Concrete

Concrete surface must be cleaned. BLASTRAC, sand blasting, diamond grinder w/30 grit or coarse, or water blasting is highly recommended to remove surface contaminants. Any oils and fats must be removed prior to product application. Acid etching may be required (followed by a thorough rinsing) to open the pores of the concrete to accept a primer. Do not apply to wet substrates. Chloride, moisture, and pH levels should be

checked prior to application. In almost every application a primer is recommended prior to use of CHEM 100 REGULAR

### New Concrete

The 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>). BLASTRAC, sand blasting, diamond grinder w/30 grit or coarser or acid etching (followed by a thorough rinsing) is required to remove the surface laitance that appeared during the curing process. A primer should be used to reduce out-gassing and promote adhesion.

## Mixing

Materials should be pre-conditioned to a minimum of 10 °C 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 8 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 mixed product on the prepared surface lightly (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.



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

## 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 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

## 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.

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.

## EPD - Self-declaration

**CHEMTEC™ COATINGS INC.** stands behind the quality of its products, However, **CHEMTEC™** cannot guarantee results since **CHEMTEC™** has no control over outside operations, surface preparation, operating conditions, and application procedures. Clients are solely responsible to test the products to determine if they perform as expected and/or as per their intended projects and/or use. Contact **CHEMTEC™ COATINGS** for additional information regarding the limitations of this product.

**CHEMTEC™ COATINGS INC.** declares that the product fulfills the criteria for reactive resins based on epoxy resin, unfilled, solvent free with low content of reactive diluent.

## Technical & Safety Literature

Information on the safe handling of chemical products, as well as the essential physical, safety-related, toxicological, and ecological data can be found in the current safety data sheets (MSDS/SDS).

Observe all relevant regulations, e.g., the hazardous substances act. Further instructions and additional information can be found on the internet at [www.epoxychemtec.com](http://www.epoxychemtec.com). To acquire additional information, refer to the technical and safety literature, or contact your CHEMTEC Technical Representative: 1 844.829.1717, or via email at [info@epoxychemtec.com](mailto:info@epoxychemtec.com).

## Warranty

**CHEMTEC™ COATINGS** warrants this product to be free from manufacturing defects. The products are warranted for one year after date of application. Please refer to the **CHEMTEC COATINGS** Limited Material Warranty for additional information.

**CHEMTEC COATINGS** will replace at no charge the quantity of the Coating that **CHEMTEC COATINGS** determines has failed to perform, as the sole and exclusive remedy for any



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breach of this warranty and/or any other defect or failure of the coating. Proof of purchase is required. Cost of labor for application of any product specifically is excluded.

**LEGAL DISCLAIMER:** All information provided by **CHEMTEC COATINGS INC.** concerning **CHEMTEC COATINGS** products, including but not limited to, any recommendations and advice relating to the application and use of **CHEMTEC COATINGS** products, is given in good faith based on **CHEMTEC COATINGS**'s current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with **CHEMTEC COATINGS**'s instructions.

In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of **CHEMTEC COATINGS**'s control are such that **CHEMTEC COATINGS** assumes no liability for the provision of such information, advice, recommendations, or instructions related to its products.

(The user of **CHEMTEC COATINGS** product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with the full application of the product(s)).

**CHEMTEC COATINGS** reserves the right to change the properties of its products without notice. All sales of **CHEMTEC COATINGS** product(s) are subject to its current terms and conditions of sale which are available by calling TF [844] 829-1717, or via email at [info@epoxychemtec.com](mailto:info@epoxychemtec.com).

## SAFETY

Consult **CHEM 100 REGULAR™** Safety Data Sheet. Avoid contact with skin. Some individuals may be allergic to epoxy resin. Protective gloves, facial and ocular protection, proper ventilation, and clothing are recommended.

- KEEP AWAY FROM CHILDREN –
- FOR INDUSTRIAL USE ONLY -

