CHEM NOVOLAC ™

Chemical Resistant Epoxy Coating System

DCC Master Format ™ 09 67 00 (REVISED VERSION 2.3: NOVEMBER 2021)

CHEMTEC EPOXY COATINGS

Product Description

CHEM NOVOLAC™ is a solvent-less, two component epoxy coating system. It exhibits very good appearance and chemical and physical properties. It has very good solvent and chemical resistance. 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
- Contains no solvent, 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
- Excellent chemical and solvent resistance
- Exceptional abrasion resistance

Technical Data

Packaging	1 US GAL, 2 US GAL, 3 US GAL, 15 US GAL, 150 US GAL, 750 GAL	
Color	Upon Request	
Recommended Thickness	CHEM-NOVOLAC	8 mils (200 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-3:2
Pot Life	20 minutes
Working Time	15 minutes

Properties @ 23 °C (73 °F) AND 50% R.H

Solids Content by weight	100%
Solids Content by volume	100%
Visocity (Mixed)	1200 cps
Application Temperature	10 °C - 30°C (50°F-70 °F)
Mixed Weight (Density)	1.15kg/litre (9.6 lb/US gal)
Foot Traffic	16 hours
Vehicular Traffic	48 hours
Full Service	7 days

Cured properties (7 days cure/50% R.H)

Tensile Elongation (ASTM D638-86)	9.6% @break
Tensile Strength (ASTM D638-86)	30 Mpa (4,320 psi)
Hardness (Shore D) (ASTM D2240-86)	81
Abrasion Resistance (ASTM D4060) Taber Abrasion, C-17 Wheel. 1000 cycles	84 mg loss

+1 844.829.1717 •450.629.1717

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4117 BOULEVARD INDUSTRIEL, LAVAL (QC) H7L 6G9 CANADA

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 contaminates. 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 NOVOLAC

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^2) after 28 days and traction resistance must be at least 1,5 MPa (218 lbs./linch^2). 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

Material 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 B into component A using the proper mixing ratio of 3A:2B 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 homogenous 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 application equipment with the cleaner/thinner for epoxies. Once the material hardens it can only be removed mechanically. If the product splatters, wash thoroughly with hot soapy water

Restrictions

- Minimum/Maximum temperature of substrate: 10°c / 30 °C (42 °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.
- 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 waler 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 bums. 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."

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. 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.

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 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.
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SAFETY

Consult **CHEM NOVOLAC ™** 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 -