CHEM WB 2K™

WATERBORNE POLYURETHANE COATING

DCC Master Format™ 09 67 00

CHEMTEC EPOXY COATINGS

TECHNICAL DATA SHEET

Edition 02/2021

DESCRIPTION DU PRODUIT

CHEM**WB 2K™** is specially formulated for commercial floors.

Two-component coating offering supreme resistance. **CHEM WB 2K™** enhances the beauty of wood surfaces and existing coated floors and offers an outstanding resistance to UV over time.

In addition, the **CHEM WB 2K™** has a great mechanical and chemical properties, making it an ideal choice for residential and commercial applications. The product provides a very long working time which facilitates application. The **CHEM WB 2K™** is self-priming thus, no need for an additional primer. The formulation of **CHEM WB 2K™** is based on the most recent technological advances providing excellent properties and an impeccable aesthetic finish. **CHEM WB 2K™** protects and seals your wood floors or any other Epoxy coating surface. Clear coating offering supreme resistance, and a perfect solution to add value to your floors.

ADVANTAGES

- ☑ Superior Resistance
- ☑ VOC Compliant
- ☑ Three Convenient Finishes
- ☑ Potential for LEED eligibility
- ☑ NMP Free
- ☑ Best UV resistance in the industry
- ☑ Excellent Elongation
- ☑ Excellent Abrasion Resistance
- ☑ Self-Priming
- ☑ Anti-Slip Properties
- ☑ Chemical Resistance
- ☑ Low VOC and solvent free
- ☑ Ease of application
- ☑ Superior mechanical and chemical properties
- ☑ Food Safe
- ☑ Mold Resistant

USAGES

☑ Residential	☑ Commercial	☑ Institutional	☑ Industrial
Kitchens, living room, Dinning room, Stairs, playrooms, Counters, tables, +++		Restaurants, retail stores, Malls, Offices, Hotels, schools and universities, Gyms, basketball court, +++	

LEED® PROGRAM CONTRIBUTION

Material and Resources (RM)	Quality of indoor environments (QIE)	Quality of indoor environments (QIE)	Regional priority (RP)
RM credit 5 Regional Material	**QEI credit 3.2** Pre-occupation management plan	**QIE credit 4.2** Low-emission materials: paints and coatings	**RP credit 2** Regional Priority
•	**1 POINTS**	**1 POINTS**	**1 À 3 POINTS**

APPLICATION METHODS

(Refer to the Definition Systems table)

System 1 - **Commercial**: High/intense traffic: 3 layers
System 2 - **Residential**: High traffic: 3 layers
System 3 - **Restauration:** High/medium traffic: 2 layers
System 3 - **Protection:** Medium/Light Traffic: 1-2 layers

APPLICATION CONDITIONS *

- ⚠ Temperature between 21 ° C and 25 ° C (70 ° F and 77 ° F)
- ⚠ Relative humidity between 35% and 50%

** Refer to the Drying and curing time of this document.*

PRODUCT DESCRIPTION

Units	**3.42 L**	**18 L**	**207 L**
Coverage:	Up to 600 pi²	Up to 3,000 pi²	Up to 34,400 pi²
Matte Finish	✓	✓	✓
Satin Finish	✓	✓	✓
Gloss Finish	✓	✓	✓

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TECHNICAL DATA

Available formats:	3,64 L - 18 L – 207 L
Color:	Clear
Sheen Rate (60°):	Gloss (90%) Semi-Gloss (60%) Satin (25%) Matte (5%)
Odor:	Slight odor / non-inconvenient
Coverage:	Up to 165 pi² (15 m²) / L

***Drying time:**

Touch:	1 Hour
Cover:	3 à 4 Hours
Light traffic:	4 Hours
Furniture:	24 Hours
Fully Cured:	7 Days
Duration of catalyzed mixture:	12 Hours
Chemical resistance:	Excellent
Mass loss at Taber test:	8 mg (ASTM D4060 with abrasive wheel CS-17)
Flashpoint:	N.D.
Solid content:	30% (Weight) - 27% (volume)
pH:	8,2 ± 0,4
VOC content:	272 g/L
Viscosity:	23 à 25 Seconds (Zahn #2)
Density:	1,04 - 1,05 kg/L
Freezing stability and thaw:	Fears frost
Lifespan:	12 months (when stored in the original container)
tools Cleaning:	Water
Storage:	Between 10°C & 30°C (50°F et 85°F)
Disposal:	Recycle if possible (See your local authorities)
USDA / FDA / CFIA:	Meet the standards

**The drying time can vary depending on the temperature, humidity, thickness, and application method. A proper test is recommended.*

EPOXY SURFACE

N.B. For a new epoxy or paint surface, make sure that the surface is hardened, dry and that the work has been carried out since at least 24 hours.

Before coating is applied, all surfaces must be:

- Dry – No wet areas (<4%)
- Clean – Free of any contaminants, grease, oil, paint, curing agents, dust, loose coating, and laitance removed or any other contaminants that may prevent proper adhesion.
- Profiled – Surface etched and/or Sanded

Mechanical preparation is the preferred method of preparing surfaces prior to coating application. Diamond grinding, Sanding, or any other acceptable preparation approved by CHEMTEC™ COATINGS INC.

FLOOR PREPARATION

1. Profile the surface using a sandpaper and/or grinder to lose all sheen and obtain a CSP 1-2.
2. Vacuum to remove dust, dirt, and any other debris.
3. Thoroughly clean to remove any leftover dirt.
4. Pass a damp synthetic rag with hot water and/or denaturised alcohol and let it dry.

NOTE: Make a test beforehand on a section by reproducing the actual application conditions and methods in order to validate the adhesion, product compatibility and color.

WOOD SURFACES

1. prepare and sand the floor as recommended by the associations of the wood flooring industry.
2. Vacuum to remove dust, dirt, and any other debris.
3. Thoroughly clean to remove any leftover dirt.
4. Pass a damp synthetic rag with hot water and/or denaturised alcohol and let it dry.

NOTE: CHEMTEC WB 2K™ apply to most oil and water dyes, and Epoxy Coatings. If applying on a dyed area, ensure to respect the drying time of the dye. Do a test beforehand on a section by reproducing the actual application conditions and methods in order to validate the adhesion, product compatibility and color.

RESTORATION OF VARNISHED FLOOR

Thoroughly clean of the floor to remove accumulated dirt and make the floor free of wax, grease or oily body, or any other contaminants that may reduce adhesion and/or alter the finish.

TESTING

All surfaces are not the same. It is recommended that a sample area be done before the start of the project. A sample area should also be done on any existing coatings and/or substrate to determine if any contaminants exist or if delaminating will occur.

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MIXING

Mix Part A with a clean stick and/or drill and a mixing paddle (Heli Mixer) at a low speed to ensure homogeneity of the product.
Gradually pour the entire Activator (part B) inside the CHEM WB 2K™ container (part A) by mixing simultaneously. Mix the varnish vigorously for 45 seconds. Leave to rest for at least 10 minutes to allow the bubbles to burst and the activator to work.

NOTE: DO NOT DILUTE
NOTE: Ensure to respect the proportion of 75 mL of activator per 3.64 L of CHEM WB 2K™ + (ratio 20 mL: 1 L).
DO NOT catalyze varnish more than once.

APPLICATION METHOD

NOTE: For best results, turn off all ventilation in the room. If ventilation cannot be off, block all ducts to minimize air movement in the room.

WITH A "T-BAR" ON A WOOD FLOOR

1. Use the 15 cm (6 in) applicator or a brush, soak and apply the varnish to the perimeter of the floor.
2. Pour the CHEM WB 2K™ directly on the floor at the edge of approximately 10 cm (4 in.) Along the starting wall (follow the floorboards).
3. Soak the applicator with "T-bar" type varnish and spread the edge in a "snowplow" movement to bring back the excess of the coating towards oneself. Overlap the CHEM WB 2K™ section 6 in. (15 cm).
4. Near the perpendicular wall, do not lift the applicator but continue the movement in the opposite direction (180 °) for a distance about 30 cm (12 inches).

NOTE: To prevent application marks, DO NOT apply pressure to the applicator and smooth out the marks and lines as you go using a flying motion. DO NOT apply too thin a coat

5. Continue like this over the entire floor.
6. About 76 cm (30 in.) From the end wall, turn 90 ° and apply CHEM WB 2K ™ against the direction of the wood strips, pulling back towards you. Head towards the entrance to the room.
7. Using the applicator, remove excess coating and finish application by smoothing out marks and lines.
8. Allow *3-4 hours of drying time between coats (*may vary depending on ambient conditions).
9. Sand between coats using 180 grit sandpaper.
10. Remove dust with a vacuum cleaner or wet towels and HOT water and/or denaturized alcohol.

    NOTE: It is not necessary to sand before the last coat if the weather between the last two applications does not exceed 4 hours.

11. Wash tools with water.

WITH A "ROLLER" ON A COATED EPOXY FLOOR

1. Pour the CHEM WB 2K™ into a pan and soak the roller.
2. Apply the CHEM WB 2K evenly rolling (East/West and North/South)

    NOTE : To prevent application marks, DO NOT apply pressure to the roller and smooth out the marks and lines as you go using a flying motion.

3. Continue like this over the entire floor.
4. Using the roller, remove excess coating and finish application by smoothing out marks and lines.
5. Allow *3-4 hours of drying time between coats (*may vary depending on ambient conditions).
6. Remove dust with a vacuum cleaner or wet towels and HOT water and/or denaturized alcohol.

    NOTE: It is not necessary to sand before the last coat if the weather between the last two applications does not exceed 4 hours.

7. Wash tools with water.

DRYING AND CURING TIME

The curing process takes approximately:

100% maturation.....7 days
90% after.....48-72 hours
75% after.....24 hours

To optimize the performance of the coating, it is important to wait for the full maturation before proceeding to the first wet cleaning.

After 4 hours of drying time, light circulation is allowed.
Wait 7 days before replacing the mats and rugs.
It is possible to have circulation after 24 hours, however the floor can scuff or scratch.
The process of maturation must be respected.

NOTE: The drying and curing times mentioned in this document may vary depending on the application conditions: a lower temperature, a higher humidity level or a greater thickness of product on the flooring could slow down the drying and maturing processes as well as change its intended finish (milky, orange peel...)

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MAINTENANCE AND PREVENTION

Use protective felts under furniture to prevent scratches. Do not slide or drag furniture on the floor. Pass vacuum or broom regularly. Use soft non-abrasive cleaning products specially designed for the maintenance of coated and/or wood floors. For more information, refer to the CHEMTEC COATINGS Commercial Floor Maintenance and Prevention document.

DISPOSAL

Excess material (A and B) should be mixed and allowed to cure. Cured product may be disposed without restriction.

Uncured materials should be stored in a suitable and sealed container and may be disposed in accordance with provincial, State, municipal, and /or Federal regulations.

LIMITATIONS

- Do not use product that has begun to cure.
- Do not use in low-temps.
- Do not apply over 8Milsthick.
- Do not use material that has crystalized.
- Do not use in high humidity conditions.
- The curing time of this product will depend on thickness. Curing times can differ significantly depending on the quantity poured at once, temperature, humidity, and the application method.
- If applied at low temperature, the product might not cure properly. We strongly recommend performing tests prior using the product.
- Heating the product to prevent bubbling could also create an exothermic reaction.
- Requires a dry substrate. This product should not be applied to substrates that show high levels of moisture/humidity. Moisture content of the substrate must be <4% prior to application.
- Not suited for exterior applications.

CHEMTEC™ COATINGS INC. stands behind the quality of its products. However, **CHEMTEC™** cannot guarantee results since **CHEMTEC™** has no control over 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. Contact **CHEMTEC™ COATINGS** for additional information regarding the limitations of this product.

TECHNICAL & SAFETY LITERATURE

To acquire additional information technical and safety literature, please see the CHEM WB 2K™ MSDS, or visit: www.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. 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.

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SAFETY & FIRST AID

Consult CHEM WB 2K™ Material 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.
- In case of contact with eyes or skin, rinse thoroughly with water for 15 minutes.
- If inhaled, move the affected person in the fresh air.
- If swallowed, call a physician. **Do not induce vomiting**.
- If the person is conscious, give him a few glasses of water to drink.
- Keep out of the reach of children.
- EMERGENCY phone: CANUTEC (613) 996-6666.

- KEEP AWAY FROM CHILDREN –

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