



PU RC WB 1K

One component PU colour coat

Pack Size-20Kgs & 10kgs

TDS Technical Data Sheet



Product Overview

Carbolink Sports PU RC WB 1K is a high-performance, water-based polyurethane coating formulated for commercial and institutional floors. This product enhances the appearance of wood, acrylic sports surfaces, running tracks, rubber, and epoxy coatings without yellowing. It provides additional protection to existing PU coating systems, featuring excellent mechanical and chemical properties, making it ideal for applications requiring increased resistance. With adequate working time, PU RC WB 1K is easy to apply and self-priming, eliminating the need for an additional primer. It offers a transparent, aesthetically pleasing finish protecting and sealing sports floors or other surfaces coated with PU.

Safety Warnings

- Some individuals may be allergic to polyurethane-based coatings and epoxy resin.
- Use protective gloves, facial and eye protection, adequate ventilation, and appropriate clothing.
- Avoid skin contact.
- In case of contact with eyes or skin, rinse thoroughly with water for 15 minutes.
- In case of inhalation, move the affected person to fresh air.
- In case of ingestion, call a doctor. Do not induce vomiting. If the person is conscious, give them a few glasses of water to drink and contact the poison control centre.
- Keep out of reach of children.
- For commercial and industrial use only.

Advantages

- Supreme Resistance
- Slip Resistance (ASTM D-2047)
- Available in Matte, Satin, and Gloss finishes
- High Abrasion Resistance & Excellent UV Resistance
- Easy Maintenance
- Low VOC Content
- Easy Installation
- Non-flammable
- No NMP
- Mould Resistant
- Safe for Food Contact
- Excellent Elongation
- Solvent-Free

Applications

- Residential
- Commercial
- Living & Dining Rooms
- Vestibules
- Stairs
- Playrooms
- Countertops & Tables
- Restaurants
- Retail Stores & Shopping Malls
- Hotels
- Schools
- Gymnasiums
- Acrylic Sports Floors
- Running Tracks
- PU Floors

Coverage per Quantity

- Coverage rate: Up to 165 sq. ft (15 sq.m) per litre

Product Data

Color	Clear
Reflection Rate:	Gloss = 60%, Satin = 40%, Matte = 5%
Odour	Low and non-offensive
Drying Times:	
Touch	1 hour
Recoat	3 to 4 hours (with ventilation), 6 to 8 hours (without ventilation)
Light Traffic	4 to 6 hours (with ventilation), 12 to 24 hours (without ventilation)
Furniture	24-48 hours (with ventilation), 72 hours (without ventilation)
Complete Cure	7 days
Catalyzed Mix Life	12 hours
Chemical Resistance	: Excellent
Taber Abrasion Test Mass Loss	: 8 mg (ASTM D4060 with CS-17 abrasive wheel)
Flash Point:	Not determined
Solids Content:	30% (by weight), 27% (by volume)
pH	8.2 ± 0.4
VOC Content:	272 g/L
Viscosity	23 to 25 seconds (Zahn #2)
Density:	1.04 - 1.05 kg/L
Freeze Thaw Stability:	Susceptible to freezing
Shelf Life:	12 months (when stored in original container)
Tool Cleanup	Water
Storage:	Between 10°C and 30°C (50°F and 85°F)

Disposal	: Recycle if possible (Consult your local authorities)
USDA / FDA / CFIA	: Meets standards

Drying times may vary depending on temperature, humidity, thickness, and application method. Adequate testing is recommended. Temperature between 21°C and 25°C (70°F and 77°F). Relative humidity between 35% and 50%.

System Application

Commercial - High/Traffic Intensive: 3 coats

Residential - High Traffic: 3 coats

Restoration - High/Medium Traffic: 2 coats

Protection - Medium/Light Traffic: 1-2 coats

Surface Testing

All surfaces are not the same. It is recommended that a sample area be created before starting the project. A sample area should also be done on all existing coatings and substrates to determine if there are contaminants or if delamination will occur.

Surface Preparation

For a surface coated with epoxy, ensure that the surface is cured and dry and the work has been done according to the coating used. Before applying the coating, all surfaces must be:

Dry: No wet areas (<4%)

Clean: Free of any contaminants, grease, oil, paint, curing agents, dust, loose coating, and any other materials that could prevent good adhesion.

Mixing

1. Shake the container well.
2. Open and mix with a drill for 2 minutes.
3. Close the container and wait for 8 to 10 minutes.
4. Pour into a pan, and it's ready to use.

Application Instructions

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

1. Remove dust with a vacuum cleaner, damp towels, hot water, denatured alcohol, and/or isopropyl alcohol.

Note: Sanding is unnecessary before the final coat if the time between the last two applications does not exceed 4 hours.

2. Wash tools with water.
3. Pour the product into a paint tray and soak the roller.
4. Apply the product by rolling evenly (East/West and North/South). Do not apply pressure on the roller and smooth marks and lines as you go using a light motion to avoid application marks.
5. Continue this method over the entire surface.
6. Using the roller, remove excess coating and finish the application by smoothing marks and lines.
7. Wait 3-4 hours between coats (may vary depending on ambient conditions and whether the catalyst is used).
8. Remove dust with a vacuum cleaner, damp towels, hot water, and denatured alcohol. Do not sand before the final coat if the time between the last two applications does not exceed 48 hours.

Cleaning: Clean tools with water.

Curing Process:

100% cure: 7 days

90%: after 48-72 hours

75%: after 24 hours

To optimise the coating's performance, wait for complete curing before the first wet cleaning. Light pedestrian traffic is allowed after 4 hours of drying. Wait seven days before replacing carpets and rugs. Traffic is possible after 24 hours, but the floor may be scratched or marked. The curing process must be respected.

Drying and curing times mentioned in this document may vary depending on application conditions: lower temperature, higher humidity, or a greater product thickness on the floor may slow down the drying and curing processes and change its intended finish (milky, orange peel, etc.).

Maintenance & Prevention

- Use protective felt pads under furniture to prevent scratches.
- Do not slide or drag furniture on the floor.
- Use Kevlar wheels for carts and chairs.
- Vacuum or sweep regularly.
- Use mild, non-abrasive cleaning products for coated and wooden floors.

Product Result Limitations

- Do not use a product that has begun to harden.
- Do not use at low temperatures.
- Do not apply more than 8 Miles thick.

- Do not use crystallised material.
- Please do not use it in high humidity conditions.
- Curing time depends on the thickness.
- Curing times can vary significantly depending on the amount poured at once, temperature, humidity, and application method.
- If applied at low temperatures, the product may not cure properly.
- Perform tests before carrying out the work.
- In direct contact with a heat source, heating the product to avoid bubbles could also create an exothermic reaction.
- Requires a dry substrate. Do not apply to substrates with high moisture/humidity levels. The moisture content must be <4% before application.
 - Not suitable for outdoor applications.

Disposal

Excess material should be mixed and allowed to harden. Hardened products can be disposed of without restriction. Unhardened materials should be stored in an appropriate container, sealed, and disposed of by local regulations.

Pack Size

20Kg & 10Kgs



Data Reliability

All technical data provided in this document are based on laboratory tests. Actual performance may vary due to factors beyond our control.

Regional Compliance

Product specifications may vary based on local regulations. Please refer to the local Product Data Sheet for precise information.

Legal Disclaimer

The information and recommendations regarding the application and end-use of Carbolink products are provided in good faith based on our current knowledge and experience. Due to variations in materials, substrates, and actual site conditions, no warranty of merchantability or fitness for a specific purpose can be inferred. The user must determine the product's suitability for the intended application. Carbolink reserves the right to change the properties of its products. All proprietary rights of third parties must be observed. Orders are subject to our current terms of sale and delivery. Always refer to the most recent local Product Data Sheet, available upon request.