



PU RC WB 2K

Two component Highly Durable
PU Colour coat

Pack Size-20.2Kgs & 10.1Kgs

TDS
Technical Data Sheet



Product Overview

PU RC WB 2K Aliphatic Polyurethane 2K is a high-performance, two-component, zero-VOC, odourless, water-based aliphatic paint/coating. It provides excellent protection against harsh weather conditions, UV exposure, corrosion, and physical damage while exhibiting elastomeric properties. This breathable waterproofer can be sprayed, brushed, or roller-applied, making it versatile for various applications.

Recommended Uses

- Running Tracks
- PU Floors
- Acrylic Floors
- Warehouses
- Food and Beverage Facilities
- Commercial Vehicles
- Airports
- Stadiums
- Sound Walls
- Direct-To-Metal Applications
- Warehouse Floors
- Garage Floors
- Tile Floors and Walls

Features & Benefits

- Scratch Resistant
- Non-Yellowing & UV Resistant Topcoat
- Anti-Carbonation Protection
- Direct-to-Metal* and Concrete Application
- Chemical and Acid Resistant
- Excellent Protective Floor Coating
- Breathable Elastomeric Waterproofer

Note: Fluted, scored block, raked joints, sandblasted, or etched surfaces may result in better absorption and lower coverage rates. Test these areas to determine the expected coverage rate before general application.

Surface Preparation

Ensure all surfaces are clean and dry, free from oils, dirt, debris, or minerals like efflorescence, lime, and calcium.

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These contaminants can prevent proper penetration and sealing of PU RC WB 2K. Use PU RC WB 2K Concrete and Masonry Cleaner system as a pretreatment for cleaning masonry surfaces. Allow surfaces to dry before sealing or fully applying a topcoat.

Mixing Instructions

- 1. Stir Part A for 2 minutes with a jiffy blade at a slow speed (500 RPM) to fully disperse the product.
- 2. Pour Part B into Part A and mix for 2 - 3 minutes.
- 3. Pour a portion of the mixed product back into the Part B container, mix well for 30 seconds, then pour it back into Part A. Mix for another 2-3 minutes.
- 4. Allow the product to stand for 5 minutes before applying it. Loosely cover the mixed product; do not reseal it.

Note: Mark the time to establish pot life, which is 3-4 hours at 75°F. Do not mix with other products or containers of PU RC WB 2K.

Application Instructions

Smooth Surfaces:

Apply PU RC WB 2K directly over most surfaces without primer. Apply a light coat at a thickness of 3 to 4 wet mils.

Porous Surfaces:

Apply a sealer or filler to eliminate potential pinholes before applying PU RC WB 2K.

Apply one coat of PU RC WB 2K (3 - 4 mils wet per coat). Allow 4 hours between coats or until tack-free.

Brush or roll out any runs immediately before drying.

For heavy-duty applications, such as warehouse floors with heavy forklift traffic, achieve a DFT thickness of 3-4 mils.

Dry Time:

1-2 hours at 75°F

Re-Application:

For proper adhesion, apply a second coat within 48 hours. If the first coat has dried longer than 48 hours, abrade the surface to promote the adhesion of the second coat.

Precautions:

- Use Rainguard's slip-resist or an appropriate non-slip additive for horizontal applications.
- Use in a well-ventilated area. Protect work from other trades. Protect plants, automobiles, and areas not to be coated from overspray.
- Clean spills or leaks promptly to prevent permanent staining.

Technical Data

Solid by Weight (%):	Clear/Matte 35±(2%), Pigmented 40±(5%)
Solid by Volume (%)	50%
Dry Time:	1 - 2 hours
Cure Time	3 - 7 days

Test Data

Flash Point:	>118°C (245°F) (Tag closed cup)
pH:	Part A - N/A, Part B - 9.2
Specific Gravity	: 1.05
Gloss	>90 @ 16°C (60°F) (Gloss meter)
Gloss Loss	< 10% (ASTM D523)
Color Loss:	< 1.1% (ASTM D2244)
Salt Spray:	1500+ hours (ASTM B117)
Humidity	1500+ hours (ASTM D2244)
Abrasion	<40 mg (ASTM D4060)
Hardness	>2H (ASTM D3363)
Adhesion	Pass (ASTM D2197)
Flexibility	Pass (ASTM D2794)

Surface Burning	Flame spread 0, Smoke development 0 (ASTM E84)
Odor	None
VOC (g/L, less water)	0
MEK Double Rub:	Passed 2,000 cycles @ 50% solids

Chemical Resistance

PU RC WB 2K provides excellent resistance to a wide range of chemicals and acids, including:

- Ammonium Hydroxide
- Potassium Hydroxide
- Sodium Hydroxide
- Sodium Chloride
- Trisodium Phosphate
- Ethyl Alcohol
- Isopropyl Alcohol
- Methyl Alcohol
- Hyjet #3
- Skydrol 500 A & B
- Hydrochloric Acid 10%
- Phosphoric Acid 35%
- Sulfuric Acid 20%
- Acetic Acid 24%
- Trichloroethylene
- Perchloroethylene
- Toluene & Xylene
- Jet Fuel - Butyl Cellosolve
- Acetone - Cellusolve Acetate
- Methyl Ethyl Ketone
- Beer - Cola - Milk
- Mustard - Bleach

Safe Handling

Use only with adequate ventilation and an appropriate cartridge-type respirator. Avoid contact with skin and wear protective gloves. Read the Safety Data Sheet before use.

- **Storage**
- Store materials in a well-protected area at 45°- 90°F. Avoid freezing temperatures, direct sunlight, and moisture. Keep away from heat sources.

Test Panel

- Always apply PU RC WB 2K to a mock wall or test panel before starting a general application to determine acceptable color, surface porosity, application rates, and methods.

Pack Size

20.2Kgs & 10.1Kg



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.