CARBOLINK GROUP

CPHB 40

Two-Component Epoxy Protective Coating.

Pack Size
20Kgs & 10Kgs

TDS
Technical Data Sheet

Product Description
CPHB 40 is a high-build, two-part, solvent-free epoxy protective coating formulated to provide excellent mechanical strength, chemical resistance, and durability. Designed for industrial applications, this coating offers superior protection for concrete, steel, and cementitious substrates.

Uses
CPHB 40 is suitable for use as: A protective coating on concrete, stone, cementitious mortars, epoxy-based substrates, and steel. A chemical-resistant lining for storage tanks and silos. An anti-corrosion coating for applications in food processing plants, sewage treatment facilities, agricultural sites, chemical and pharmaceutical industries, and the beverage sector.

Features & Benefits
Solvent-free, ensuring minimal environmental impact. Provides excellent mechanical and chemical resistance. Forms a high-build, durable coating. Impervious to liquids, enhancing protection against moisture ingress. Easy to mix and apply using standard methods

Environmental Information
Meets LEED v2009 IEQc 4.2 standards for Low-Emitting Materials - Paints and Coatings.

Approvals & Standards
Certified for concrete protection under EN 1504-2:2004, with CE marking. WRAS-approved (Test Report No. M104991, 2011) for contact with potable water in compliance with BS 6920-1:2000.

Product Information
Chemical Base: Epoxy resin
Packaging: Available in standard pre-measured packs.
Appearance/Color: RAL 7032 (Pebble Grey); custom colors available upon request.
Shelf Life: 12 months for both Part A and Part B when stored properly in original unopened packaging
Storage Conditions: Store in a dry location between +5°C and +30°C, away from direct sunlight.
Solid Content: 100% .

Technical Information
Shore D Hardness: ~80 (DIN 5305)
Mechanical Resistance:
• Taber Abraser CS 10/1000/1000: 24.4 mg loss (ASTM D4060)
• Taber Abraser CS 17/1000/1000: 70 mg loss
• Taber Abraser H 22/1000/1000: 560.6 mg loss

Tensile Adhesion Strength: >1.5 N/mm² to concrete (ISO 4624)
Chemical Resistance: **A**vailable upon request from technical services**.**
Thermal Resistance:
• Permanent exposure: +50°C
• Short-term exposure (7 days): +80°C
• Short-term exposure (12 hours): +100°C

Application Information

Mixing Ratio: Part A : Part B = 3 : 1 by weight
Consumption: ~0.30 kg/m² per layer Layer
Thickness: ~0.2 mm per layer
Ambient Air Temperature: +8°C min. / +40°C max.
Relative Air Humidity: <80%
Substrate Temperature: +8°C min. / +40°C max. (Minimum 3°C above dew point)
Pot Life:
• +10°C: ~30 minutes
• +20°C: ~20 minutes
• +30°C: ~10 minutes

Waiting Time / Overcoating

Temperature | Min. | Max. | Full Cure
+10°C | 30 hours | 3 days | 14 days
+20°C | 10 hours | 2 days | 10 days
+30°C | 6 hours | 1 day | 5 days

Application Instructions

Substrate Quality
Ensure the substrate is clean, dry, structurally sound, and free from contaminants such as dirt, grease, oil, laitance, and loose materials. Non-cementitious or highly absorbent substrates may require priming.
Substrate Preparation
Concrete Surfaces: Must be mechanically prepared to create an open-textured surface. Remove weak areas and loose particles using grinding, shot blasting, or high-pressure water jetting.
Steel Surfaces: Prepare mechanically via abrasive blast cleaning to SSPC-SP 10 “Near White Metal” or ISO EN 12944-4 Sa 2½ standards. Remove all dust and debris before coating application.

Mixing

Stir Part A thoroughly before adding Part B. Mix continuously for at least 3 minutes using a low-speed mixer (300–400 rpm) to prevent air entrapment. For best results, transfer the mixed material to a clean container and mix again.

Application

Apply using a brush, roller, or airless spray for even distribution.

Cleaning of Tools

Immediately clean tools and equipment with Thinner C. Hardened or cured material can only be removed mechanically.

Limitations

Do not apply on moist substrates. Maximum sag resistance on vertical surfaces is approximately 200 µm. Protect freshly applied CPHB 40 from dampness, condensation, and water for at least 24 hours. Ensure batch consistency for color uniformity.

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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.

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