



CONCOAT CL

INDUSTRIAL MICRO-COATING

ConCoat CL is a inorganic/organic hybrid, high performance lithium micro-coating. This product is designed to be a quick drying and breathable alternative to epoxies, paints, acrylics, and polyurethanes. This product is designed for both interior and exterior use. The unique single component chemistry of ConCoat CL offers outstanding durability and bond strength, while providing resistance to solvent and petroleum-based materials.

Applications

ConCoat CL uses unique non-toxic chemistry and dries to a very hard, semi-gloss finish that will not yellow or delaminate. This VOC compliant treatment provides long-lasting surface protection and is ideal for porous substrates like concrete in a variety of areas including:

- Grocery Stores
- Aircraft Hangers
- Manufacturing Facilities
- Automotive Dealerships
- Schools
- Architectural Concrete
- Laboratories
- Shipping Terminals
- Warehouses
- Food Processing Facilities
- Office and Medical Buildings

Advantages

- Out-performs other coatings
- Increases Abrasion Resistance
- Low Tensile does not peel or curl
- Keeps dirt and contaminants from surface
- Dries Quickly
- Low Odor
- Easily Repairable
- VOC Compliant
- Simple Re-Application

Physical Properties

Form	Liquid
Color	White, dries clear
Odor	Moderate Paint-Like
Total Solids	30-35%
Specific Gravity	1.01
PH	11-12
VOC Content:	<50g/L
Flash Point:	N/A
Freeze Point:	32°F (0°C)
Viscosity:	5200 CPS

Available in

- 1 Gallon Jug
- 5 Gallon Pail
- 55 Gallon Drum

Shelf Life

1 year in original unopened container.

Storage Conditions

Container should be sealed tightly when not in use. Material may be stored between 36° F and 100° F. Do not allow to freeze.

Consistency

Pourable, white liquid

Appearance

Dries to a clear, semi-gloss film



Material Coverage

Coverage rate will vary based on concrete porosity and environmental conditions, but typical installations will yield 300-400 sqft per gallon on Machine-Troweled and 150-250 sqft per gallon on broom finish.

Application Recommendations

Before application, always do a small test sample in a less-visible area to be sure there are no variables or contaminants in the substrate that may be incompatible with this product.

Apply only when surface temperatures will be above 40°F (4°C) for at least 2 hours following application. Create a smooth but porous surface profile (a profile equivalent to using a 150-200 grit metal diamond is ideal) using shot blasting, diamond grinding, acid etching or similar methods. Clean surface to remove any dirt, laitance, curing compounds or coatings. Do not use citrus or acidic cleaners. If acidic or d-limonene cleaners have been used, neutralize the surface using an alkaline cleaner (TSP, Tide laundry detergent, etc.). Remove grease and oil according to ASTM D4258-83 and remove release agents according to ASTM D4259 – 88. Refer to SSPC-SP13/NACE No 6 mechanical or chemical surface preparation methods for preparing concrete to suitable cleanliness for intended service. Allow a minimum 28 days cure time for new concrete prior to preparation and application. For previously existing coatings, prepare surfaces using SSPC-SP12/NACE No. 5 low pressure water cleaning methods to remove surface contamination. Supplement SSPC-SP 12 LPWC with SSPCSP1 solvent cleaning and SSPC-SP2 and 3 to clean areas of corrosion and loose or flaking paint (feather edges of sound, existing paint back to a firm edge). Sand glossy surfaces to provide profile.

Mask areas that do not receive ConCoat CL to protect from overspray. Thoroughly mix product immediately before applying. Using a sprayer, apply ConCoat CL evenly on the surface. For manual application, foam rollers or very low nap rollers are most effective.

If a second coat is necessary, wait until the first coat is dry--usually about 1 hour. For an anti-slip or high friction surface, sprinkle anti-slip aggregates or reflective glass beads (120mesh) immediately on wet surface if desired. For added gloss, and durability a coat of Hi-Tech ConCoat CL can be added to the surface.

Caution

If ConCoat CL comes into contact with glass, fabric, metal, or painted surfaces, immediately wipe contaminated surfaces with a damp cloth, then wipe dry with a second clean cloth.

Clean Up

Use soap and water to clean tools and equipment. Although ConCoat CL is non-toxic and environmen-tally safe, it is alkaline. Use up or dry out extra material and dispose of according to local regulations. Do not pour into sewer systems or storm drains

Limitations

ConCoat CL will not hide stains. It is chemically resistant and helps reduce staining, but some com-pounds, especially acids, may damage the surface. ConCoat CL will not bridge or fill cracks and will not salvage honeycombed or structurally unsound surfaces. This product will not alter the profile of a sur-face. It is not suitable for asphalt, non-cement surfaces or painted surfaces. Visit our website (www.hitechpolyurea.com) to find additional tips, guidelines and specifications. Proper application is the responsibility of the user.

Safety & Handling

All personnel should read and understand the Safety Data Sheet prior to use. Proper safety equip-ment must always be worn in accordance with OSHA regulations including but not limited to protective non-slip footwear, rubber gloves, eye protection or splash sheild, and long sleeve coveralls.

CAUTION: Surfaces wet with ConCoat CL may be slippery.

First Aid

KEEP OUT OF REACH OF CHILDREN. This product is alkaline. Keep container closed tightly when not in use. Do not drink. If swallowed, do not induce vomiting; drink two glasses of water and call a physician. If splashed in eyes, rinse eyes immediately with clean water and call a physician if irritation persists. ConCoat CL will dry out and irritate the skin. Clean skin with soap and water promptly.

Warranty

HI-TECH warrants its products to be free of manufacturing defects will meet HI-TECH's current pub-lished physical properties when applied in accordance with HI-TECH's directions and tested in accord-ance with ASTM and HI-TECH's standards. There are no other warranties by HI-TECH of any nature whatsoever, expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. HI-TECH Corporation shall not be liable for damages of any sort, including remote or consequential damages, resulting from any claimed breach of any warranty, whether expressed or implied, including any warranty of merchantability or fitness for a particular purpose or from any other cause whatsoever.



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