

# ***Technical Data / Cyclospartic Original Slow Top Coat***

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## **PRODUCT DESCRIPTION**

Cyclospartic Top Coat is a two component, high solids, high gloss, UV stable floor coating for use in residential and commercial settings. It is designed to be used as a clear finish over broadcast floor and is suitable for both interior and exterior applications. Cyclospartic Top Coat can be tinted with approved colorant.

## **PRODUCT APPLICATION**

*READ ALL INSTRUCTIONS CAREFULLY BEFORE STARTING PROJECT*

## **SURFACE PREPARATION**

New concrete should be allowed to cure for a minimum of 28 days. The concrete must be structurally sound, dry, and free of grease, oils, dust, curing compounds and other coatings or contaminants (SSPC-SP1). Surface laitance must be removed. Rising moisture vapor emission rate must not exceed 3lbs. per 1000 sq. ft. over a 24 hour period as measured by calcium chloride test method ASTM F-1869. The application area must be completely free of sealers, oils, dirt, paint, alkali, penetrating sealers, or any foreign materials that would prevent Cyclospartic Top Coat from penetrating the concrete surface. The recommended substrate should have a minimum concrete surface profile (CSP) of 2-3 in accordance to the ICRI Guideline No. 03732. Contact ICRI at [www.ICRI.org](http://www.ICRI.org) for more information on these surface profiles. Surface must be dry prior to application of Top Coat.

## **MIXING**

Both components should be pre conditioned to a minimum of 50°F (10°C) prior to use. Thoroughly mix each component separately before combining. Be sure to use a separate mixer blade for each component to avoid cross contamination.

Combine the components using a mixing ratio of 1:1 by volume, Part A to Part B and power mix at 500-700 rpm for a minimum of two minutes. Do not entrain air into the mixing. Do not mix more material than can be applied in 20-25 minutes.

*If Original Slow and Super Slow topcoat are mixed you may experience unpredictable cure and potential bubbling.*

## **TINTING (CLEAR)**

Tinting is only to be done after Part A and Part B have been thoroughly mixed. If tinting, add 10% by volume of the selected approved colorant. Power mix until a uniform color is achieved. If there are any questions on the tint process of this product, please consult our technical service department.

## **EQUIPMENT RECOMMENDATIONS**

ROLLER: Use a high quality 3/8" inch lint-free roller with a phenolic core.

BRUSH: Use a disposable natural fiber chip brush, 2-4 inch wide for cut in work.

SQUEEGEE: Use a flat squeegee.

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### **APPLICATION**

Apply only when air, material and floor temperatures are between 0-90°F (-18 -32°C) and surface temperature is at least 5°F (3°C) above the dew point. The relative humidity of the air should not be greater than 75%. Do not apply in direct sunlight or when temperature is rising. Colder environmental conditions can slow the cure of Cyclospartic Top Coat. Be sure the substrate is completely dry. Variability in these conditions during application may lead to surface defects. For application outside of this temperature range, please contact Garage Force Technical Service.

Immediately after mixing, pour the material onto the floor in a long, 8 to 12 inch wide stripe.

NOTE: Do not scrape the sides or bottom of the container. Use only the material that flows naturally out of the container. Also, do not turn the container upside down and leave on the floor to drain. Doing so may result with unactivated material from the sidewall of the container being applied. This will cause soft spots in the coating.

Use a flat rubber squeegee to spread the material out and achieve the 100 -175 sq.ft./gal. spread rate. M & W and back roll the material smooth using a 3/8" lint free roller with a phenolic core to smooth out the finish.

NOTE: Coverage rate can vary depending on the texture of the surface coated.

THINNING: Up to 5%

CLEAN-UP: Acetone

### **FOOD SAFE**

This document serves to confirm that the products listed below meet the performance criteria set forth in the U.S. Department of Agriculture (USDA) "Sanitation Performance Standards Compliance Guide" and the U.S. Food and Drug Administration (FDA) "2005 Food Code." These standards apply to paints and coatings utilized in food processing plants and food establishments. It should be noted that the USDA and FDA have ceased issuing product approval letters to coatings manufacturers. Instead, it is required that coatings applied on walls and ceilings in relevant facilities adhere to regulatory standards and be certified as follows:

Garage Force certifies that the following products comply with Title 9, Part 416.2(b) of the Code of Federal Regulations and the FDA "2005 Food Code" when used as topcoats on walls, floors, and ceilings. When applied according to the instructions on the label, these products will not cause insanitary conditions nor will they adulterate food products. Furthermore, they are not classified as pesticides and do not exhibit pesticidal properties.

Upon request, Garage Force will provide the complete chemical composition of these products to the Food Safety Inspection Service (FSIS). It remains the responsibility of the end user to consult with the local FSIS inspector to verify if any additional requirements are applicable for the specific use intended.

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### **CHEMICAL RESISTANCE**

<b>CHEMICAL</b>	<b>RESULT</b>	<b>CHEMICAL</b>	<b>RESULT</b>
1, 1,1-Trichlorethane	R	Methanol	R
Acetic Acid	R	Methylene Chloride	R
Acetone	L	Mineral Spirits	R
Ammonium Hydroxide 50%	R	Motor Oil	R
Battery Acid	R	MTBE	R
Beer	R	Muriatic Acid 10%	R
Benzene	R	NaCl/ H2O 10%	R
Bleach	L	Nitric Acid 20%	L
Brake Fluid	L	Orange Juice	R
Brine saturated H2O	R	Peroxide 35%	L
Chlorinated H2O	R	Phosphoric Acid 50%	R
Citric Acid 30%	R	Phosphoric Acid 85%	L
Citric Acid 40%	L	Potassium Hydroxide 20%	R
Clorox H2O	R	Power Steering Fluid	R
Coolant	R	Propylene Carbonate	R
Crude Oil	R	Skydrol	R
Diesel fuel	R	Sodium Bicarbonate	R
Ethylene Glycol	R	Sodium Hydroxide 50%	R
Fatty Acids	L	Sodium Hyochlorite 10%	R
Formula 409	R	Stearic Acid	R
Gasoline	R	Sugar/ H2O	R
Gasoline/5% MTBE	R	Sulfuric Acid 10%	R
Gasoline/5% Methanol	R	Sulfuric Acid >50%	R
Hydraulic fluid (oil)	R	Toluene	L
Hydrofluoric Acid 10%	R	Transmission Fluid	R
Hydrochloric Acid 20%	R	Trisodium Phosphate	R
Iodine	L	Urea	R
Isopropyl Alcohol	R	Vinegar/ H2O 5%	R
Lactic Acid 15%	R	H2O 14 days at 82° C	R
Lactic Acid 50%	L	Xylene	L
MEK	R		

### **CHEMICAL RESISTANCE CHART KEY**

R-Recommended for continuous service

L-Limited Recommendation, occasional spills \*May cause slight stain or discoloration

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## **PHYSICAL PROPERTIES**

Resin Type	Cyclospartic Polyurea
Weight Per Gallon	9.42 lbs.
Solids by Volume	87%
Volatile Organic Compounds*	<50 g/l
Mixing Ratio	1:1 (Part A to Part B)
Pot Life	20-25 minutes
Recommended Dry Film Thickness (DFT)	9 -13 mils
Practical Coverage Rate at Recommended DFT	100 -175 sq.ft./gal.
Cure Times @ 70-80°F and 50% Relative Humidity	
Recoat 2-12 hours*	
Light Traffic 6-8 hours	
Full Traffic 24 hours	
Shelf Life 12 months	
Safety Information See SDS	

*Coverage rate can vary depending on the texture and porosity of the concrete*

## **Performance Characteristics**

### **TENSILE STRENGTH**

METHOD: ASTM D412  
TYPICAL VALUE: 6650 PSI

### **ELONGATION**

METHOD: ASTM D638  
TYPICAL VALUE: 7-12%

### **COMPRESSIVE STRENGTH**

METHOD: ASTM C695  
TYPICAL VALUE: 9550 psi

### **FILM HARDNESS, SHORE D**

METHOD: ASTM D2240  
TYPICAL VALUE: 82

### **GLOSS**

METHOD: ASTM D523 @60°  
TYPICAL VALUE: 90+

### **TABER ABRASION**

METHOD: ASTM 4060, CS 17, 1,000 gram load  
TYPICAL VALUE: Loss/1000 cycles = 11 mg

The technical data and suggestions for use contained herein are correct to the best of our knowledge and offered in good faith. The statements of this literature do not constitute a warranty, express, or implied, as to the performance of these products. As conditions and use of our materials are beyond our control, we can guarantee these products only to conform to our standards of quality, and our liability, if any, will be limited to replacement of defective materials. All technical information is subject to change without notice.