Technical Data / Anchor Coat Cyclospartic Base Coat

PRODUCT DESCRIPTION

Anchor Coat is a two-component, 99% solids, Cyclospartic coating developed as a base coat for a variety of coating systems. Anchor Coat provides exceptional adhesion to a large number of substrates. It performs well in a wide range of temperatures and climate conditions and maintains a quick cure even at colder temperatures.

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 9lbs. 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 Anchor 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 for more information on these surface profiles. Surface must be dry prior to application of Anchor 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 1:2 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.

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 1/8” notched squeegee.

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 85%. Do not apply in direct sunlight or when temperature is rising. Colder environmental conditions can slow the cure of Anchor 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 1/8" notched rubber squeegee to spread the material out and achieve the 250-350 sq.ft./ gal. spread rate. M & W the material smooth using a 3/8" lint free roller with a phenolic core to smooth out the finish. If being used as a basecoat for a color aggregate or color chip finish, begin to broadcast the desired amount of aggregate or chip onto the coating as soon as the roller application is completed. Do not do any additional rolling after broadcasting material.

THINNING: None required.
NOTE: If necessary, can be thinned up to 10 percent with acetone.
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.

PHYSICAL PROPERTIES

Resin Type	Cyclospartic Polyurea
Weight Per Gallon	9.03 lbs.
Solids by Volume*	95.52%
Solids by Volume**	99.27%
Volatile Organic Compounds*	5.91 g/l
Volatile Organic Compounds**	46.18 g/l
Mixing Ratio	1:2 (Part A to Part B)
Pot Life	20-25 minutes
Recommended Dry Film Thickness (DFT)	5-8 mils
Practical Coverage Rate at Recommended DFT	250-350 sq.ft./gal.

Cure Times @ 70-80ºF and 50% Relative Humidity

- Recoat 2-12 hours*
- Light Traffic 2-4 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
**Theoretical to include material not 'officially' VOC Exempted for Coatings*
*** Theoretical to exclude material identified as VOC Exempt for other End Use Applications*

Performance Characteristics

TENSILE STRENGTH
METHOD: ASTM D412
TYPICAL VALUE: 3600

ELONGATION
METHOD: ASTM D412
TYPICAL VALUE: 198

TEAR STRENGTH (PLI)
METHOD: ASTM 2240
TYPICAL VALUE: 350

FLEXIBILITY (1/8" MANDREL)
METHOD: ASTM D1737
RESULT: Pass

IMPACT RESISTANCE
METHOD: ASTM D2794
TYPICAL VALUE: Direct/Reverse, 250/285 inch pounds.

ADHESION
METHOD: ASTM D4541
TYPICAL VALUE: >550 psi