PRODUCT DESCRIPTION

Cyclo-1 is a high solids, single component hdi aliphatic that provides a smooth finish with excellent protection from UV rays, abrasion, and many of today's harshest chemicals. Cyclo-1 provides reliable performance in a wide range of temperatures and climate conditions. For a beautiful satin finish, just add our Abrasion Resistance Additive. Ideal for interior, exterior horizontal and vertical use.

PRODUCT APPLICATION

READ ALL INSTRUCTIONS CAREFULLY BEFORE STARTING PROJECT

SURFACE PREPARATION

The concrete surface must be free of all dirt, grease, oil, fats, and other contamination. Remove surface contamination by cleaning with a cistrus based desgreaser, detergent, or other suitable cleaner. Rinse thoroughly with clean, fresh water and allowed to dry.

MIXING

Both components and environment should be pre conditioned to a minimum of 50° F (10° C) prior to use. Be sure the air and surface temperatures are at least 5° above the dew point. Cyclo-1 is moisture sensitive, so be sure the outside of the containers are dry and free of condensation.

Shake the container of stabilizer for one full minute before combining with the Cyclo-1. The components can be mixed in a separate container or mixed in the gallon pouch.

After combining the components, power mix at 500-700 rpm for 2-3 minutes. Use an appropriate size mixer and use care to not entrain air into the coating while mixing.

TINTING

Tinting is only to be done after stabilizer has been thoroughly mixed in
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" or 1/4" inch lint-free roller with a phenolic core.
BRUSH: Use a disposable natural fiber chip brush, 2-4 inch wide for cut in work.

APPLICATION

Apply only when air, material and floor temperatures are between 50-90°F (10-32°C) and the surface temperature is at least 5°F (3°C) above the dew point. The relative humidity should not be greater than 85%. Do not apply in direct sunlight or when temperature is rising. Be sure the substrate is completely dry.

Pour out only the amount of material to be used into a roller pan. Unused material can be saved in the mixing container provided it is properly sealed. Do not return unused material from the roller pan to the mixing container.

Use a 3/8 or 1/4 inch, lint free roller with a phenolic core to roll out the coating. Begin with rolling out a W or M pattern, then cross roll to fill in and smooth out the coating.

NOTE: Do not exceed recommended coverage rate, as film defects are possible.

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	HDI Aliphatic
Weight Per Gallon	9.59 lbs.
Solids by Volume	92%
Volatile Organic Compounds	<50 g/l
Pot Life	30-45 minutes
Practical Coverage Rate	400-600 sq.ft./gal.

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

Recoat	4-12 hours*
Light Traffic	4-6 hours
Full Traffic	24 hours
Shelf Life	18 months
Safety Information	See SDS

Coverage rate can vary depending on the texture and porosity of the concrete
**If 12 hour recoat time has elapsed, the coating must be sanded prior to recoating.*

Performance Characteristics

TENSILE STRENGTH
METHOD: ASTM D412
TYPICAL VALUE: 5500

ELONGATION
METHOD: ASTM D412
TYPICAL VALUE: 75

COMPRESSIVE STRENGTH
METHOD: ASTM C695
TYPICAL VALUE: 9550 psi

FILM HARDNESS, SHORE D
METHOD: ASTM D2240
TYPICAL VALUE: 84

GLOSS
METHOD: ASTM D523 @60°
TYPICAL VALUE: 91+

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

ADHESION
METHOD: ASTM D4541
TYPICAL VALUE: >550 psi

COEFFICIANT OF FRICTION
METHOD: ASTM D1894
TYPICAL VALUE:0.69 Wet, 0.80 Dry

CHEMICAL RESISTANCE

CHEMICAL	RESULT
1, 1,1-Trichlorethane	R
Acetic Acid	R
Acetone	R
Ammonium Hydroxide 50%	R
Battery Acid	R
Beer	R
Benzene	R
Bleach	L
Brake Fluid	L
Brine saturated H2O	R
Chlorinated H2O	R
Citric Acid 30%	R
Citric Acid 40%	L
Clorox H2O	R
Coolant	R
Crude Oil	R
Diesel fuel	R
Ethylene Glycol	R
Fatty Acids	L
Formula 409	R
Gasoline	R
Gasoline/5% MTBE	R
Gasoline/5% Methanol	R
Hydraulic fluid (oil)	R
Hydrofluoric Acid 10%	R
Hydrochloric Acid 20%	R
Iodine	L
Isopropyl Alcohol	R
Lactic Acid 15%	R
Lactic Acid 50%	L
MEK	R

CHEMICAL	RESULT
Methanol	R
Methylene Chloride	R
Mineral Spirits	R
Motor Oil	R
MTBE	R
Muriatic Acid 10%	R
NaCl/ H2O 10%	R
Nitric Acid 20%	R
Orange Juice	R
Peroxide 35%	L
Phosphoric Acid 50%	R
Phosphoric Acid 85%	L
Potassium Hydroxide 20%	R
Power Steering Fluid	R
Propylene Carbonate	R
Skydrol	R
Sodium Bicarbonate	R
Sodium Hydroxide 50%	R
Sodium Hyochlorite 10%	R
Stearic Acid	R
Sugar/ H2O	R
Sulfuric Acid 10%	R
Sulfuric Acid >50%	R
Toluene	R
Transmission Fluid	R
Trisodium Phosphate	R
Urea	R
Vinegar/ H2O 5%	R
H2O 14 days at 82° C	R
Xylene	L

CHEMICAL RESISTANCE CHART KEY

R-Recommended for continuous service

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