

Stars Management DMCC

SUBMITTAL

COCOON 501

(Air Barrier Coating)

COCOON 501

Air Barrier Coating



DESCRIPTION

COCOON 501 is formulated for exterior surfacing of masonry, plywood, steel, etc. COCOON 501 is a liquid polyvinyl chloride coating which can be sprayed on any clean, dry building surface. Wherever it is sprayed, it forms a tough, strong permanent waterproof skin that is adaptable to most surfaces. COCOON 501 seals against moisture, gases, corrosion, and particulates, and maintains excellent low temperature flexibility.

OUTSTANDING FEATURES

- ☐ Highly efficient seal for interior applications such as dust-free areas, shower rooms, brewery fermentation rooms and bottling plants, hospital scrub rooms, and natatoriums
- □□ Provides abrasion resistance, washability, moisture protection, chemical resistance, and bacteria resistance
- ☐☐ Resists corrosion and surface deterioration caused by acids, oils, fats, greases, and fungi
- □□ Maintains an effective gas seal coating in controlled atmosphere storage, hyperbaric suites, and fumigation warehouses
- □□ Effectively seals plenum chambers and ducts in environmental control systems against air loss
- □□ Bridging characteristics provide a permanent seal around lights, filters, pipe and duct penetrations, and at all ceiling and wall joints

APPLICATION

CAUTION! Read this entire data sheet before continuing. All surfaces must be dry, free of dirt, loose debris, oil, grease, or any substance that could interfere with adhesion. Additionally, all surfaces should be modified in a manner to make them as smooth as possible by removing sharp projections and filling gaps and voids. A minimum surface profile of 1/2 mm should be maintained for maximum adhesion. After proper masking, prime the entire surface to be coated with Vinyl Bond B, directly from the can, by spray or roller, and allow the primer to dry. Close all penetrations through the surface by using a webbing coat. Webbing solution is made by mixing 1 part

Webbing Agent with 3 parts CO-COON 501 and mix until the color is uniform. Spray apply COCOON 501 in multiple overlapping passes until a 20 mil dry film thickness has been achieved. The first should be very light to avoid breaking the webs. Properly applied, the coating should be free of voids and pinholes. Voids and pinholes must be re-sprayed to achieve a complete seal. Prior to the removal of any protection or equipment, a thorough inspection of the entire area should be completed, and all damage or deficiencies must be repaired and re-sprayed. All termination joints should be sealed with a polyurethane sealant. For recommendations regarding equipment, contact our Technical Department.

SPECIFICATIONS	
Coating Type	Polyvinyl Chloride Solution
voc	254 gms/liter
Pot Life	Single Component
Shelf Life	24 months
Recommended Thickness	3 to 5 mils d.f.t. per coat
Coverage	1 gallon per 100 sq. ft. per coat x 4 coats
Packaging	5-gallon pails
Colors	Clear, White, and other normal colors



Corrosion-Resistant Coating

LIMITATIONS

Proper ventilation must be provided during application for effective drying of the coating, and all applicators must wear suitable respirators.

MAINTENANCE

Damaged areas may be repaired by cleaning surface and application of COCOON 501 as described in the Application Section.

PRECAUTIONS

Read and understand the Material Safety Data Sheet thoroughly. Make sure that all involved parties are familiar with the M.S.D.S. CO-COON 501, in its liquid state, is flammable, and proper safety precautions against exposure to open flame, sparks, or other sources of igniation must be taken and strict safety rules enforced.

Keep out of reach of children and pets.

For more information, call our Technical Department.

TECHNICAL DATA			
Moisture Vapor Transmission	0.06 perms	ASTM E-96	
Tensile Strength	900 psi	ASTM D-412	
Elongation	170%	ASTM D-412	
Flexibility at Low Temperature	180 deg. bend @ -30°C	ASTM C-711	
Shore 'A' Hardness	75 degrees	ASTM D-2240	
Weatherometer (240 hours)	85 gloss	ASTM G-23	
Viscosity	55 ku	ASTM D-446	
Drying Time	5 minutes per coat		
Total Solids	30% (B.W.); 25% (B.V.)	ASTM D-1044	
Flashpoint	+15°F	FTMS 141A (M4293)	
Fire Resistance	Self-extinguishing		
Cleaning of Equipment	M.E.K. or Acetone		

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Effective Date: 08/2010

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MATERIAL SAFETY DATA SHEET U.S. Department of Labor Occupational Safety & Health Administration

COCOON 501

SECTION 1 - IDENTIFIERS

MANUFACTURER: Andek Corporation TRADE NAME: Cocoon 501

SECTION 2 – HAZARD IDENTIFICATION & EMERGENCY OVERVIEW

Emergency Overview: Toxic gases may be given off during burning or thermal decomposition. Closed containers may forcibly rupture under extreme heat.

Effects of Overexposure:

SKIN: Frequent or prolonged contact may irritate and cause dermatitis. Low order toxicity.

EYES: Irritating and will injure eye tissue if not removed promptly; vapors may irritate eyes.

BREATHING: High vapor concentrations are irritating to the eyes and the respiratory tract, may cause headaches, drowsiness,

and dizziness; are anesthetic or narcotic and may have other central nervous system effects.

SWALLOWING: Minimal toxicity. Small amounts of the liquid aspirated into the respiratory system during ingestion, or from

vomiting, may cause bronchopneumonia or pulmonary edema; no hazards anticipated from ingestion incidental to industrial exposure.

SECTION 3 - COMPOSITION

COMPONENT	<u>CAS #</u>	<u>APPROX %</u>	<u>TLV</u>
Toluene108-88-328.0			
Butene Dioic Acid Polymer w/Chloroethene and Ethenyl Acetate	9005-09-82	9.6	
Acetone	67-64-1	42.0	
Vinyl Acetate	108-06-4	0.2	
Methyl Isobutyl Ketone	108-10-1	0.2	
KNOWN CARCINOGENS OR MUTAGENS: Vinyl Acetate - IARC p	ossible carcinogen; 2B		

SECTION 4 – FIRST AID MEASURES

SKIN: Immediately flush with large amounts of water; use soap if available; remove contaminated clothing, including shoes, after flushing has begun.

EYES: Immediately flush eyes with large amounts of water for at least 15 minutes; get prompt medical attention.

BREATHING: Using proper respiratory protection, immediately remove the affected victim from exposure; administer artificial

respiration if breathing has stopped; keep at rest; get prompt medical attention.

SWALLOWING: First aid is not normally required, induce vomiting if large quantity is ingested; call a physician.

SECTION 5 - FIRE & EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): 0°F. TCC

FLAMMABLE LIMITS: None LEL: 3% UEL: 12%

EXTINGUISHING MEDIA: Carbon dioxide or dry chemical

SPECIAL FIRE FIGHTING PROCEDURES: Do not use water or soda acid. Use respiratory protection.

UNUSUAL FIRE & EXPLOSION HAZARDS: Explosion limits approximately 3% to 12%. Handle similar to fighting Toluene or Ketonefire

SECTION 6 - SPILL OR LEAK PROCEDURES

Clean up immediately. If spill is excessive, ventilate area. No smoking, open flame, sparks, etc.

SECTION 7 - HANDLING & STORAGE

Store in cool place in closed containers away from fire hazards. Post NO SMOKING, NO WELDING, NO OPEN FLAME signs in work area.

SECTION 8 - PERSONAL PROTECTION/EXPOSURE CONTROLS

RESPIRATORY PROTECTION: Organic vapor respirator or fresh air hood. Ventilate work area properly. VENTILATION: Portable explosion proof fans. No smoking, open flame, sparks, or excessive heat.

PROTECTIVE GLOVES: Not required. Non-static, chemical resistant, if desired.

EYE PROTECTION: Not required. Goggles or safety glasses, if desired.

PROTECTIVE CLOTHING: Non-static clothing and shoes. WORK/HYGIENIC PRACTICES: Wash with soap and water.

SECTION 9 - PHYSICAL DATA

BOILING POINT (F)

VAPOR PRESSURE

VAPOR DENSITY (AIR=1)

149°F

N/A

MELTING POINT

N/A

MELTING POINT

N/A

VAPORATION RATE (N.B.A.=1)

4.5

SOLUBILITY IN WATER Slight V.O.C. 2.12 lb/gal - 254 g/1

APPEARANCE & ODOR - Lacquers, Ketone Solvents (nail polish)

SECTION 10 - REACTIVITY DATA

STABILITY: Stable.

HAZARDOUS DECOMPOSITION OR BY- PRODUCTS: Unknown. Possibly slight amounts of HCL, carbon dioxide, and some carbon monoxide. HAZARDOUS POLIMERIZATION: Will not occur.

CONDITIONS TO AVOID: Keep away from oxidizing agents and open flame when containers are open.

MATERIALS TO AVOID: Oxidizing agents.

SECTION 11 - TOXICOLOGICAL INFORMATION

See reference data for individual components.

SECTION 12 - ECOLOGICAL INFORMATION

See reference data for individual components.

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in accordance with existing federal, state and local environmental laws.

SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: Paint
HAZARD CLASS: 3
PACKING GROUP: 2
ID #: UN 1263
RQ: None
TRANSPORT LABELS REQUIRED: Flammable liquid

SECTION 15 - REGULATORY INFORMATION

See reference data for individual components.

SECTION 16 - OTHER INFORMATION (HMIS RATING)

Health2Flammability3Physical Hazard1Personal ProtectionH

Disclaimer: Andek Corporation (Andek) believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the issue date of this Material Safety Data Sheet (MSDS). However, because the conditions of handling, use, and storage of these materials are beyond Andek's control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials and make no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations contained in this MSDS are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and data and to comply with all applicable international, federal, state, and local laws and regulations.

COCOON USES

MOTHBALLING

Originally formulated in 1946 by R.M. Hollingshead of Camden, NJ, Cocoon was used to mothball ships and aircraft after World War II. Many of the mothballed aircraft were stripped of Cocoon and used again in the Korean War. The mothballed ships that have not been scrapped, remain intact after over 60 years of exposure to all weather conditions in shipyards all over the country.

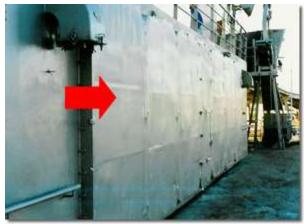
Cocoon sprayable vinyl plastic coating will conform to the contour of any surface to provide a tough, flexible monolithic seal. This hermetic seal is possible due to Cocoon's unique ability to bridge openings.



Preparing a grid of paper masking tape before mothballing.



An open hatchway area is closed in with Cocoon.



A close up of the same wall.



A funnel is sealed with Cocoon.



Enclosing a deck-mounted rocket launcher.

This tubular steel framework is being sealed with Cocoon.



Finished product is tested under 3 inches of negative water column. It held for the 8 hour test.

VERSATILITY

Cocoon is an extremely versatile sprayable vinyl plastic coating. Sunlight, rain, wind and marine atmosphere have little or no effect on Cocoon. Cocoon coatings prevent water and moisture vapor penetration and protects walls, both interior and exterior, from structural damage brought about by the presence of excessive moisture.

Because Cocoon is a true PVC, it also has excellent chemical resistance. Cocoon coatings resist a wider range of chemicals than any other single generic type coating. The outstanding advantage of Cocoon is the ease of maintenance and its longevity.





Cracked plaster walls sealed with light rose tinted Cocoon



Waterproofing of exterior walls for the US Coast Guard.



A hospital Operating Room has Cocoon walls for ease of sterilization.



Chemistry lab floor is sealed to contain any spillage.



Sealed decorative metal dome conforming to multi-faceted surface.



A Catholic church with a fluted roof.



A lighthouse with a metal roof & brick walls with Cocoon.





Applying Cocoon to the Vertical Assembly Building and Launch Control Center - NASA





Plywood apple storage facility sealed with Cocoon.



Cocoon coated large swimming pools to reduce state park maintenance costs.



Dolphin show pool coated with tinted Cocoon





Tabacco fumigrant barn has a leak





Priming and finishing the repair

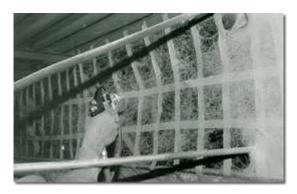




Smoke testing and a finished product.

PLENUMS

Cocoon is a permanent positive seal for use in plenums due to its ability to bridge openings and to conform to any surface. Cocoon's tough flexible membrane creates a moisture vapor barrier that is able to maintain specified operating pressures. Cocoon eliminates the necessity of using gaskets, sealants or mortar. The Cocoon applicator is solely responsible for the creation and integrity of the seal.



Webbing a block wall to the underside of a corrugated metal deck.



Piping through plenum wall to be sealed.

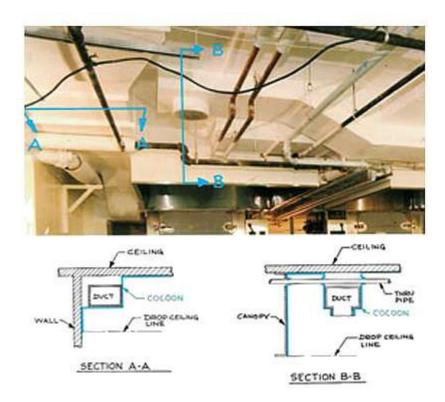


The same pipes have been masked and webbed in preparation for Cocoon coating.





Sheet metal dust isolation plenum - note pipes



Cocoon's ability to bridge gaps and voids effectively puts pipes and ductwork outside of the cleanable seal. Necessary penetrations into the space can be sealed to prevent cross contamination.

CLEAN ROOMS

Cocoon is a monolithic finish is extremely washable and is resistant to most chemicals and cleaning agents. Cocoon will not chip, crack or peel due to impact. Should the coating be damaged, repairs can be effected and the seal restored in a matter of minutes. It is available in hospital white or color of your choice through custom color match.





Cocoon conforms to any substrate, even dissimilar surface (block to drywall illustrated on the right)



Surface preparation is very important for a smooth finish.



Priming the walls prior to Cocoon finish coat



Attention to corner detail.



Overlapping Cocoon onto floor ensures a complete seal.



Pharmaceutical manufacturing area.



A dedicated sterile pharmaceutical manufacturing facility.

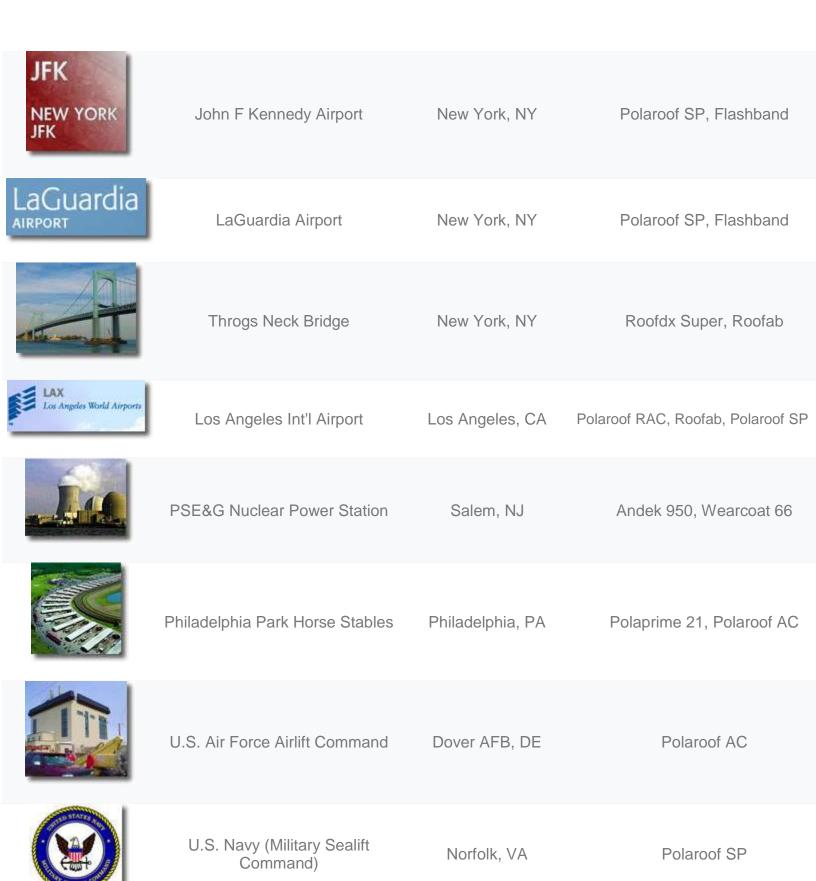
As illustrated, Cocoon has provided monolithic seals for most major pharmaceutical manufacturerers in plenums, clean rooms, manufacturing areas, aeseptic areas, sterile facilities, animal facilities, containment areas and bio-safety areas.

Food or milk processors and brewers have used Cocoon's unique abilities under harsh conditions as a cleanable, long lasting alternative to paint with USDA acceptance.



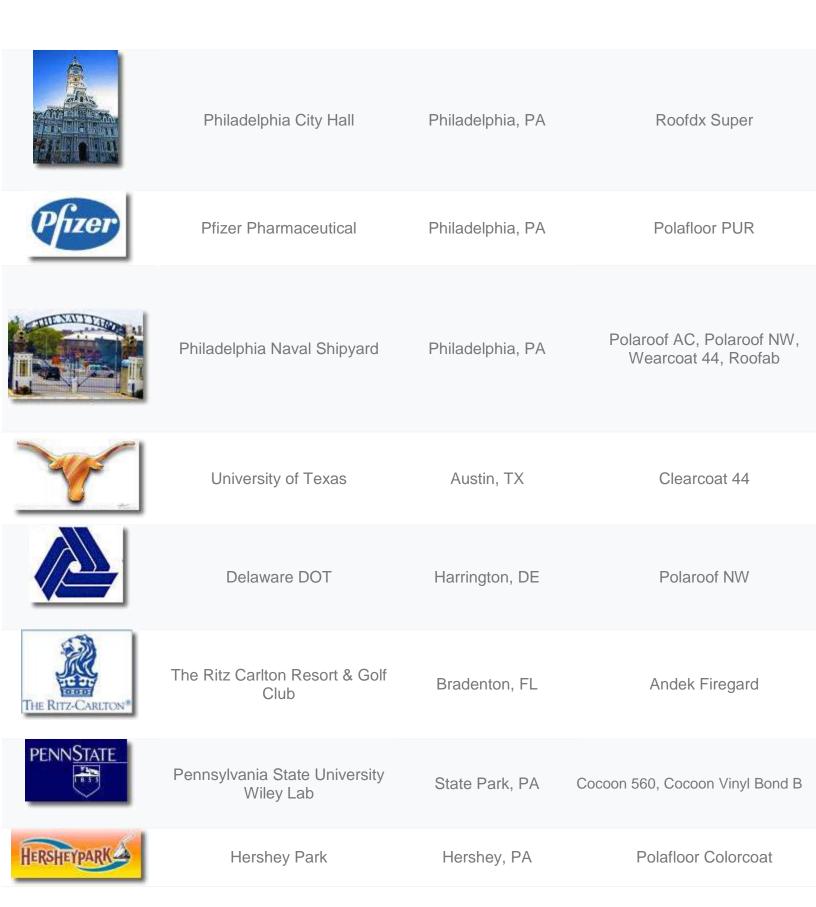
PROJECT REFERENCES

	PROJECT	LOCATION	ANDEK PRODUCT USED
# H	U.S. Naval Research Lab	Washington DC	Polaroof NW
	Reagan National Control Tower	Reagan National Airport, Washington, DC	Polaroof AC, Wearcoat 66
	Arch Street Presbyterian Church	Philadelphia, PA	Polaprime 21, Polaroof AC
	Trump Building Wall Street (Metal roof)	New York, NY	Polaprime 21, Polaroof AC
INTERSTATE PENNSYLVANIA 476	PA DOT-Interstate 476	Pennsylvania	Polagard AG
BOEING	McDonnell Douglas (Boeing Aerospace)	New Jersey	Polaroof RAC



	Walt Disney World	Orlando, FL	Roofdx Super, Polaroof RAC, Roofab, Polaroof AC, Polaroof NW, Clearcoat 44
	The Moshulu	Philadelphia, PA	Polaprime 21, Roofab, Polaroof RAC
78	Interstate 78	Pennsylvania	Polagard AG
Department of Veteranic Affairs	Veteran's Administration Hospitals	Delaware & Palo Alto, CA	Polaroof RAC, Polaroof SP
	Jazzland Amusement Park	New Orleans, LA	Polagard AG
NASA	NASA Goddard Space Flight Center	Greenbelt, MD	Polaroof RAC, Roofab
OKHEALTH OF HEALTH	National Institutes of Health	Bethesda, MD	Cocoon 560, Cocoon Vinyl Bond B
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	National Italian Foundation HQ	Washington D.C.	Polagard Fibrelastic
	Independence Blue Cross/Blue Shield HQ	Philadelphia, PA	Roofdx Super, Polafloor PUR
	U.S. Navy - Military Sealift Command	Norfolk, VA	Polaroof SP
Picatinny	U.S. Army	Picatinny Arsenal, NJ	Polajoint Super
©NORAMCO ™	Noramco Pharmaceuticals	Wilmington, DE	Polaprime 21, Polaroof NW,Clearcoat 44
	U.S. Coast Guard	Cape May, NJ	Polaroof SP, Polaroof RAC, Roofab
	Bank of America	Baltimore, MD	Polaprime 21, Roofdx Super, Polaroof RAC, Roofab
14	Blue Cross/ Blue Shield	Columbia, SC	Polagard AG

